

THE MAY 1933

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25<sup>c</sup>

How to Identify the Stations:  
Slogans, Studios, Owners and Mail  
Addresses of All Broadcast Stations

How to Build a Simple S. W.  
Converter

Learning to Tune the Short Waves

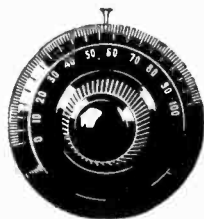
No. 69

MAY 1, 1933

# RADIO INDEX

Reg. U. S. Patent Office

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NINTH YEAR

NUMBER 69

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Published Monthly Excepting July and August  
See Subscription Blank on Page 24

\$1.75 per Year

25c per Copy

## THE RADEX PRESS, INC.

Publication Office, 404 No. Wesley Ave., Mount Morris, Illinois.  
Editorial and Executive Office, Hanna Building, Cleveland, Ohio

Entered as second-class matter November 7, 1932, at the post office at Mount Morris, Ill.  
under the Act of March 3, 1879. Printed in U. S. A.

**ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE**

# MAY DX CALENDAR

## Special Programs for Distant Listeners

A. M. time is given as the night before. Thus early Monday morning programs are listed under Sunday night. Time is given in Eastern Standard so that programs may be listed in proper sequence.

### SUNDAY NIGHT

April 30th

2:30-4:00—CHWK, 665, Chilliwaak, B. C.  
4:00-4:30—KGAR, 1370, Tucson, Ariz.

May 7th

12:00-2:00—CMCH, 1405, Havana, Cuba.  
3:00-5:00—KPCB, 650, Seattle, Wash.

May 14th

Noon-Noon—F31CD, 840, Saigon, Indo-China.  
4:00-6:00—KFBI, 1050, Abilene, Kans.

May 7th, 14th, 21st, 28th

12:15-1:00—KSOO, 1110 Sioux Falls, S. D.  
1:00-3:00—WGES, 1360, Chicago, Ill.

### MONDAY NIGHT

May 1st, 15th, 29th

5:00-6:00—WAWZ, 1350, Zarephath, N. J.

May 8th, 22nd

4:30-5:15—WEAO, 570, Columbus, Ohio.

May 1st, 8th, 15th, 22nd, 29th

12:00-2:30—WMIL, 1500, Brooklyn, N. Y.  
1:00-5:00—WSUI, 880, Iowa City, Iowa.  
5:00-5:15—WCAH, 1430, Columbus, Ohio.  
5:15-5:30—WHP, 1430, Harrisburg, Pa.

### TUESDAY NIGHT

May 16th

2:00-3:00—WJMS, 1420, Ironwood, Mich.

May 30th

2:30-3:30—WCLO, 1200, Janesville, Wis.

May 2nd, 9th, 16th, 23rd, 30th

12:00-1:00—KFUO, 550, St. Louis, Mo.  
2:00-4:00—CFJC, 1120, Kamloops, B. C.  
5:00-6:00—KFGQ, 1310, Boone, Iowa.

### WEDNESDAY NIGHT

May 3rd

2:00-2:30—WHBF, 1210, Rock Island, Ill.

May 24th

3:00-4:00—KDLR, 1210, Devils Lake, N. D.

May 31st

2:30-4:00—CHWK, 665, Chilliwaak, B. C.  
4:00-4:30—KGAR, 1370, Tucson, Ariz.

May 3rd, 10th, 17th 24th, 31st

12:00-1:00—WHBL, 1410, Sheboygan, Wis.  
2:00-3:00—KFJX, 1310, Grand Junction, Colo.  
2:30-4:30—CKWX, 730, Vancouver, B. C.

### THURSDAY NIGHT

May 4th, 11th, 18th, 25th

11:00-12:30—WHOM, 1450, Jersey City, N. J.  
12:00-1:00—KFUO, 550, St. Louis, Mo.  
12:00-2:30—WMIL, 1500, Brooklyn, N. Y.  
1:00-2:00—WBBX, 1200, New Orleans, La.  
1:00-2:00—WENC, 1420, Americus, Ga.

June 1st

4:00-5:00—KASA, 1210, Elk City, Okla.

### FRIDAY NIGHT

May 5th

2:00-4:00—WCOD, 1200, Harrisburg, Pa.  
4:15-4:45—WNBZ, 1290, Saranac Lake, N. Y.

May 12th

5:00-6:00—WJBU, 1210, Lewisburg, Pa.

May 19th

2:30-5:00—10-BI, 1200, Prince Albert, Sask.

May 5th, 12th, 19th, 26th

12:30-1:30—WCAJ, 590, Lincoln, Nebr.  
1:00-1:30—CFCN, 985, Calgary, Alta.  
1:00-3:00—CKCL, 580, Toronto, Ont.  
1:30-3:30—KGEK, 1200, Yuma, Colo.  
4:30-5:00—CMJH, 1150, Ciego de Avila, Cuba.

### SATURDAY NIGHT

May 6th

12:00-1:00—WRBX, 1410, Roanoke, Va.

May 6th, 13th

1:00-5:00—WJBJ, 1210, Hagerstown, Md.

May 6th, 20th

3:00-5:00—10-AT, 1158, Trail, B. C.

May 13th, 27th

1:00-3:00—KUSD, 890, Vermilion, S. D.

May 20th

5:30-7:00—WRAK, 1370, Williamsport, Pa.

May 6th, 13th, 20th, 27th

9:00-2:00—WWRRL, 1500, Woodside, N. Y.  
12:00-1:00—WGBI, 880, Scranton, Pa.  
12:00-1:00—WJBK, 1370, Detroit, Mich.  
12:00-1:30—WWVA, 1160, Wheeling, W. Va.  
12:00-3:00—CMCD, 1140, Havana, Cuba.  
12:00-4:00—WNAO, 1230, Boston, Mass.  
12:30-3:00—WBBZ, 1200, Ponca City, Okla.  
1:00-1:30—WKY, 900, Oklahoma City, Okla.  
1:00-2:00—CMCY, 1325, Havana, Cuba.  
1:00-2:00—KQV, 1380, Pittsburgh, Pa.  
1:00-2:00—KTPI, 1240, Twin Falls, Idaho.  
1:00-2:00—WGBF, 630, Evansville, Ind.  
1:00-3:00—WGES, 1360, Chicago, Ill.  
1:00-3:00—WWAE, 1200, Hammond, Ind.  
1:00-4:00—KGU, 750 Honolulu, Hawaii.  
1:15-2:30—WOMT, 1210, Manitowoc, Wis.  
2:00-3:00—CMGT, 1375, Carlenas, Cuba.  
2:00-5:00—KFEL, 920, Denver, Colo.  
2:00-5:00—WAMMN, 890, Fairmont, W. Va.  
2:00-7:00—KGBU, 900, Ketchikan, Alaska.  
2:30-4:30—CKWX, 730, Vancouver, B. C.  
2:30-5:00—10-BI, 1200, Prince Albert, Sask.  
3:00-4:00—KDB, 1500, Santa Barbara, Calif.  
3:00-4:00—KFXM, 1210, San Bernardino, Calif.  
3:00-4:00—KXL, 1420, Portland, Ore.  
3:00-5:00—CFCT, 630, Victoria, B. C.  
4:00-6:00—KVOA, 1260, Tucson, Ariz.  
4:00-6:00—XFB, 1290, Jalapa, Mexico.

## SPECIAL

The International DXers Alliance has arranged with Station F-31-CD of Saigon, Indo-China, to broadcast for 24 hours continuously, midnight Sunday, May 14th, to midnight Monday, May 15th, or, in Eastern Standard Time, from noon of Sunday to noon of Monday.

Here is a chance to try for real distance for Saigon is almost exactly on the opposite side of the world from Philadelphia.

# BUILDING a Short Wave CONVERTER

• • • By B. FRANCIS DASHIELL

**T**HE tuning limits of broadcast receivers are well known to present day listeners. Few radio sets tune above or below the 550 and 1500 kilocycles extremes of the dial. If they do, the added range whets the desire of the owner to reach into the low wave bands. But the average receiver, however, covers only the authorized band within which stations are permitted to broadcast to the listening public, and the outside wave bands remain a mystery.

Below 550 kilocycles, and above 1500 kilocycles—545 to 200 meters, respectively—are other wave bands. There is the low frequency or long wave band, and the high frequency or short wave band. Although present day listeners are particularly interested in the short waves beyond 1500 kcs., there are many who wish to delve into the long wave field. They are referred to the May, 1932, issue of RADEX, for information about building a long wave receiver.

Neither long nor short waves can be covered with the average broadcast receiver. A few sets provide for this by including the short waves in "all-wave" receivers. These have been described in the September, 1932, issue of RADEX. Some listeners use special short wave receivers to cover the high frequency band. But it is possible to use a simple, separate device in combination with any broadcast receiver so that short waves may be heard in addition to the regular broadcast programs.

Such a device is called a short wave "converter." It connects directly to the aerial input terminal of any broadcast receiver, and uses every tube and circuit of the set. The more or less obsolete short wave "adapter" is now seldom used. The adapter plugs into the detector or audio tubes of the broadcast set by removing one of those tubes, and

therefore uses only a few tubes in part of the set. For this reason it is far less efficient than the converter. Of interest to many thousands of owners of tuned-radio-frequency receivers—a. c. operated—is the fact that any converter will turn the set into a short-wave superheterodyne receiver when in use. It also may be used with any superheterodyne set for short wave reception.

## What's on the Short Waves?

Short waves are the ones below 200 meters, or above 1500 kilocycles. Constantly more and more radio transmissions are being forced into the crowded limits of the short-wave channels. It is here that signals carry far; tuning is selective and sharp; static is less; and day time reception is good from great distances. And, too, it is here that actual radio-telephone conversations and broadcasts from fixed commercial, amateur, experimental, emergency, aviation, television, and marine radio stations, may be heard. Code, also, pours from many radiotelegraph transmitters. Hundreds of stations are in constant operation, and will provide much entertainment for radio listeners and thrills for DX fans.

The Government's control of radio has placed all types of services in assigned frequency channels. There is no control over foreign stations, and many of them will be heard scattered through the American channels. Their frequencies are given elsewhere in RADEX so they can easily be located. It is impracticable to list all the channels assigned to every type of world-wide radio service that can be heard in the short wave bands, but the United States services are arranged according to the following frequencies for radiotelephone transmissions.

## The Various Bands

Police broadcasts, and other municipal emergency services, operate on 1712 kilocycles, and also between 2414 and 2470 kcs. The state police organizations use 1574 to 2506 kcs., while marine and harbor police and fire departments are heard on 1558 kcs. The highly interesting aviation and weather broadcasts, from airports to planes and between planes in the air, may be heard on frequencies from 2300 to 3500, 4100 to 4200, 5500 to 5700, and 6500 to 6600 kilocycles.

Ship telephone conversations and broadcasts from vessels such as the Leviathan, Majestic, Europa, etc., can be heard from 3125 to 3147, 4177 to 4197, 6650, 8830, 13,185 to 13,260, 17,600 to 17,640 and 21,575 to 21,625 kilocycles. Experimental radio relay broadcasts that are made simultaneously with regular broadcasts, from stations such as W8XK which belongs to, and relays programs from KDKA, are heard on frequencies ranging from 6020 to 6140, 9510 to 9590, 11,710 to 11,890, 15,100 to 15,290, 17,760 to 17,800 and 21,460 to 21,540 kilocycles.

Then there are coastal telephone services, commercial, U. S. Government, and marine, between land and ship stations. Listen for them on frequencies from 3420 to 3500, 4750 to 4775, 6460 to 6480, 8540 to 8560, 11,370 to 11,400, 12,800, 17,100 and 22,700 kilocycles. The great international radiotelephone services operate on frequencies from 3250 to 3335, 4010 to 5990, 6680 to 6980, 7310 to 8200, 8700 to 9490, 9610 to 10,990, 11,415 to 11,600, 11,900 to 12,300, 13,000 to 13,900 and 14,410 kilocycles. And of course, in between the telephone channels are hundreds of code stations arranged completely to fill the entire band from 1500 to 50,000 kilocycles.

In the amateur wave bands are many thousands of interesting privately owned stations that converse with each other throughout the country and the rest of the world. While



*Guess who? It's our old friends, Amos 'n' Andy, in their every-day faces. Freeman F. Gosden, Left, and Charles J. Correll. These famous entertainers have appeared in character so many times that they must talk "Harlem" in their sleep.*

much transmission is carried on by radiotelegraph, the telephone work is assigned to frequencies between 1715 and 2000, 3500 to 3550, 3900 to 4000, 14,100 to 14,300 and 56,000 to 60,000 kilocycles. No amateurs are permitted to operate between 8 and 10:30 p. m., local time.

The short wave converter is the most efficient device that can be utilized to permit reception of high frequencies on an ordinary broadcast receiver. An article about these interesting radio accessories appeared in the March, 1932, issue of RADEX. But, because so many of our readers enjoy experimenting with easily assembled radio apparatus we are presenting herewith a complete short wave converter that was designed especially for RADEX. It may be attached to any type of receiver, if a. c. operated, and will extend into the otherwise silent ether regions that teem with short-wave transmissions. The converter may be constructed by anyone at a minimum of time, material and expense. Every effort has been made to simplify the circuit, while at the same time satisfactory performance may be assured.

Before proceeding with the actual

construction of the converter the following list of necessary parts and material should be procured, most of which usually can be found in the stock of spare odds and ends around the home workshop. The numbers given after each item refer to similar numbers shown on the drawings which serve to identify the parts.

- 1—0.01 mfd. fixed condenser (1)
  - 2—.0001 mfd. fixed condensers (2 3)
  - 2—.1 mfd. fixed condenser (4, 5)
  - 1—5,000 ohms resistor (6)
  - 1—50,000 ohms resistor (7)
  - 1—100,000 ohms resistor (8)
  - 2—.00015 mfd. variable condensers (9, 10)
  - 2—4-pin tube sockets (11, 12)
  - 1—5-pin tube socket (13)
  - 1—6-pin tube socket (14)
  - 1—50 millihenry r. f. choke coil (15)
  - 8—1½-inch diameter plug-in coil forms, 4-prong to fit sockets 11 and 12. (16 to 23, inclusive)
  - 1—wafer socket adapter to fit under any 2½-volt tube in broadcast receiver to obtain heater current to heat converter tubes.
  - 1—56 type super-triode oscillator tube. (5-pin)
  - 1—58 type triple-grid super-control amplifier tube. (6-pin)
- Small quantity of No. 28 double-cotton-covered magnet wire.

Full working drawings of the RADEX Converter will appear in the June issue. In the meantime the above list of parts may be secured by those who desire to add this superheterodyne converter to their regular broadcast receiver and thus be prepared to delve into the short-wave realm. The short waves know no season for when it is summer here it is winter in South America, Australia, New Zealand and many other parts of the world.

The second and concluding part of this article will appear in the June issue.

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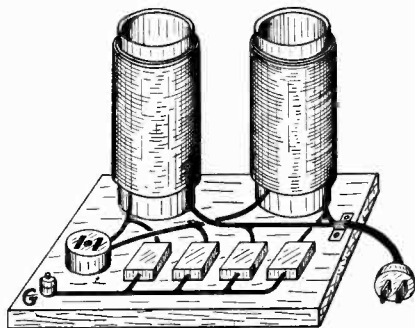
*Don't forget the complete index of world stations in the June issue.*

## That Noise Filter

For the further benefit of many of our readers the circuit diagram of the Noise Filter described in the April issue of RADEX is pictured in more detail herewith. The two coils are wound in two layers each. Start the winding at one end of the tube and put on 100 turns, then begin a second layer over the first and return to the starting point with another 100 turns. This places 200 turns on each coil, with an inner and outer end of wire. The 110-volt plug and wire connects to the outer ends of the two coils and the two inner ends connect to the socket provided for the radio set cord and plug.

The four fixed condensers are connected to a common binding post for grounding; the other ends connected to each of the four ends of the coil windings as shown also in the diagram on Page 3 of the April issue of RADEX. The coils and parts can be mounted on a small wooden base as shown, and round blocks fastened to the base support the coil forms in a vertical position by forcing the tubes down over the blocks.

To keep the wires from unwinding, make two small holes half an inch apart in the coil and pass the end of the wire in and out of these holes.



# VISITING *the* STUDIOS

• • • with "Betty"

**B**ETTY BARTHELL, blue-eyed, dimpled songstress from the South, whose picture beautifies our cover, first smiled at life on a sunny 16th of April in Nashville, Tennessee. Fortune has smiled back ever since. Betty can't recall one unlucky day. One day she broke a mirror, entered an audition as singer Number 13, and emerged as winner of that contest.

Less than a year after a Nashville radio manager heard Betty swing into lively lyrics and tinkling tunes over a grand piano in a Nashville drawing room, she was swept to stardom. Betty seems to be what is known in the studios as a "natural." Prior to her role on a nationwide network, her chief bid to fame was as national president of the alumnae association of Ward-Belmont College, Nashville's finishing school. Turning back to the still fresh print in her college yearbook, we find Betty catalogued as "personality, pep and popularity—plus."

Betty never dreamed that radio was to be her career. She had occasionally thumped out popular melodies on the piano and hummed a tune or two. These talents, developed "by ear," were limited to school-girl gatherings and her first job was playing for classroom folk dancers in the Ward-Belmont gym. Betty was graduated from that cloistered atmosphere in 1928 and plunged immediately into the spirited social life of the southern city.

## Coaxed into Radio

Only by much coaxing did a director of WLAC, Columbia's Nashville station, drag Betty to the studios. Before she knew it was anything more than a lark, he had sold her talents as a feature of the program presented by the local Para-

mount-Publix theatre. Subsequently, she was heard by Columbia's program director, Julius Seebach, and immediately taken to New York.

"Just born under a lucky star," is the way Betty sums it up, admitting in the next breath that she always wears a lucky coin in her shoe and carries, for good luck, the pieces of that broken mirror in her handbag. Only one shadow—and it's not very dark—fell across her sunny path to fame.

## Family Wouldn't Listen

The Barthel family frowned on theatrical life. For six months they refused to buy a radio to hear Betty sing. But when she came home last Christmas with the world in a jug, Mr. Barthel figured it was high time the family tuned in. Now it's a big night in Nashville whenever Betty sings.

In New York, Betty lives with two southern girlhood friends in a Greenwich Village apartment attended by a negro cook, Emily. On weekends she commutes to country life at Babylon, Long Island. Betty picks ice hockey and rides atop Fifth Avenue buses as the most thrilling sights in New York.

**SIDE GLANCES:** Has big, vivid blue eyes, a wealth of black bobbed hair; is equally captivating in sport or evening dress; confesses she has a weakness for black and white clothes; divides much of her time between dancing, sports, bridge and crazy parlor games; is a rabid radio, theatre and movie fan; also likes books and open fireplaces; likes to watch crowds and celebrities, and knows no better dish than old-fashioned home-made vegetable soup.

Heretofore billed as Elizabeth, she shorted her name to the thirteen-letter monicker, Betty Barthell. Listen

in any Monday at 10:00 P. M., or Friday at 8:00 P. M., EST., over the Columbia network.



**Andre Kostelanetz**

Andre Kostelanetz, Columbia staff composer, arranger and orchestra leader, was barely twenty when he left his native Petrograd to come to the United States. He has never been back, and although the city of his birth is now called Leningrad, he always refers to it by the name it bore under the Czarist regime.

If he ever intended to return to Europe he changed his mind. He is here to stay and he is in radio to stay. Although he first became interested in radio as early as 1924, he did not have the opportunity to apply vigorously his many talents until about a year ago, when his conspicuously brilliant arrangements, both vocal and instrumental, revealed him as one of radio's foremost musical directors.

Mr. Kostelanetz is a small, competent man, whose movements in or out of the studio are brisk, almost imperative. In his office, his pencil hurries over manuscripts. In the studio, his baton is authoritative, sensitive. But

during the inevitably tense moments which occur to artistic people, he displays a disarming sense of humor. He has adapted himself with ease to American customs and viewpoints, and has a charming way of mixing contemporary slang with a lingering accent which has in it the traces of many European tongues. In his adolescent years he learned to speak German, French, English, Italian, Spanish and Finnish.

His baton directs the distinctive symphonic arrangements of modern melodies heard during the Pontiac broadcasts each Thursday at 9:30 P. M., EST., over the Columbia network. He writes all of the arrangements he uses. In addition to the Pontiac program, this versatile conductor directs the "Threads of Happiness" program on Tuesdays at 9:15 P. M., EST., and many other programs.

#### **Fannie Brice**

Fannie Brice made her first stage appearance when she was thirteen years old. She was standing in the wings watching a young newsboy friend perform on "Amateur Night"



*Fannie Brice*



in a Brooklyn theatre—when someone suddenly pushed her before the footlights. She won first prize. That was the first time she knew people would actually pay her money for singing. George M. Cohan gave her a job in the chorus of one of his shows, but fired her a week later because she couldn't dance. She gave away most of her limited wardrobe to another chorus girl to teach her to dance, and finally got a job in a burlesque company. She was understudy to the leading lady and her life was dreary until the star got an abscess on her neck. "O-i-i-i, how I watched that abscess," recalls Fannie. It burst and Fannie got her chance.

Finally, she came to the attention of Florenz Ziegfeld, who put her in the Follies of 1910. She remained in the Follies for two seasons and they made a vaudeville tour in England. Hailed as a star upon her return, she re-entered the Follies in which she appeared each year until 1924.

Since leaving the Follies she has been seen in Irving Berlin's "Music Box Revue," David Belasco's production "Fannie," and in motion pictures. Her most recent Broadway appearance was in the musical revue "Crazy Quilt."

You may hear Fannie on the Royal Vagabonds program, Wednesday at 8:00 P. M., EST., over the NBC (Red) net work.

### Fred Waring

Fred Waring is a family man. Not because he likes to stay home with his pipe and slippers and bounce the kiddies on his knee, but because his band, the justly famous Pennsylvanians, is a sort of merger of several different families.

There's Fred's brother, Tom, to complete the Waring contingent, Babs Ryan and her brothers from Kansas City, and the Lane sisters, Priscilla and Rosemary. Then there are the boys who came from Fred's home town, Tyrone, Pa.—Fred Buck, the banjoist, Fred Campbell, the flute



*Fred Waring with three beautiful helpers*

player, and "Poley" McClintock, the drummer who sings like a parrot with laryngitis. As head man of this interrelated aggregation and a dozen other assorted horn tooters, Fred wouldn't have much time to stay with the pipe and slippers, even if he wanted to.

The young baton waver does have some free time, occasionally, and he uses it to play golf. As might be expected from the boss of an orchestra which does so many strange things, he acts pretty strangely about golf. He doesn't care what score he makes.

He never played golf in Tyrone, Pa., when he was a youngster, because the Boy Scout business took up most of his time. He directed the fife and drum corps, and his right hand man was "Poley." Fred Campbell was the chief fife tootler, and under the able direction of this triumvirate the corps was the sensation of Tyrone. With brother Tom this trio soon became the "Scrap Iron Quartet."

The "Scrap Iron Quartet" finally got to Penn State College. Penn made a mistake almost as soon as Fred Waring arrived. It wouldn't let him join the Glee Club. He wasn't discouraged, however, and so he formed a band, and for some inexplicable reason called it the Pennsylvanians.

After graduation Fred and his Pennsylvanians went into the band business in earnest. They special-

ized in original treatments of popular tunes and turned out to be a bit different than other bands. They played dance engagements and vaudeville, landed in "Syncopation," one of the first of the musical movies, and appeared in three revues, "The New Yorkers," "Hello, Yourself" and "Rah, Rah Daze." They signed up for their first regular radio program with Old Gold last February.

### Some Short Shots

It's Lieutenant Commander Vallee now. The famous singer and orchestra leader has been made an honorary naval lieutenant commander by Governor Louis J. Brann, of his native State of Maine.

\* \* \*

In response to hundreds of inquiries into the authenticity of the original Baron Munchausen, whose character is being assumed by Jack Pearl, such a person really existed. The original Munchausen (1720-1797) was born in Hanover, Germany. He fought in the Russian War against the Turks and it was after his return to Germany that he entertained his friends with his fantastic tales.

\* \* \*

London is calling those Boswell Sisters. While Connie, Vet and Martha play vaudeville in this country in addition to broadcasting, British producers have literally been pleading with their manager, Harry Leedy, to bring the girls over. A summer tour is being planned unless broadcasting commitments prevent it.

\* \* \*

Patti Pickens, the cheerful little sprite who harmonizes with her big sisters, is an accomplished tap dancer. Occasionally when the rhythm of the number the girls are rehearsing is exceptionally hot, Patti, who is only 16, goes into an expansive breakdown with her own "Gawja" interpretations. And do her sisters burn up!

## BREAKING *into*

THE experiences of a short wave fan may be divided into three separate stages; first, Expectancy; second, Discouragement; and third, Success. A great number of persons never reach this third stage by reason of their period of discouragement. Becoming disappointed because of their apparent inability to tune in foreign stations, they quit and forever after denounce short wave reception and receivers. It is unfortunate that this should be, both for the person concerned and for short waves in general, and it is further aggravated by the fact that this second stage is so unnecessary.

Any of several different reasons may cause one to become discouraged but no doubt the greatest reason is that most beginners expect too much from their equipment. Truly, this is no fault of the beginner, but in many cases it can be laid at the door of the person who sold him the receiver. Advertisers who promise world-wide reception as easily as tuning in broadcast band stations, who say that at a twist of the dial stations come rolling in from Capetown to Shanghai, and who paint glowing pictures of one reclining in his easy chair listening to a bullfight from Madrid or Geisha girls from Tokyo as he would listen to Amos 'n' Andy, are the ones who are directly responsible for this unhappy situation. The most reasonable manufacturers are now using more conservative advertising and as soon as all others follow this example a deplorable situation will be relieved.

The purpose of this article is to point out what may and what may not be expected of a good receiver. It is difficult to lay down any fixed rules for operating a set. The only way to learn to tune is by tuning.

Listeners are advised not to tune

# the Short Waves

• • • By PAGE TAYLOR

haphazardly, but on the other hand one must tune more or less blindly until a few local stations are heard. Since stations are heard in groups at separate places and not all over the dials, it is necessary to first locate these groups, or "bands" by the local stations. W8XK is generally heard well in the 19- and 25-meter bands, W1XAZ will locate the 31-meter band while the 49-meter band may easily be located by several stations, such as W2XE, W8XK, or W9XF. Whenever any of these or other stations are heard their dial readings should be recorded along with the frequency of the stations, which may be found in the station lists. After the various bands are located one should confine his efforts to a particular band for a few days, at the following times: in the vicinity of the 19-meter band between 8 a. m. and noon; remain close to the 25-meter band from noon until about 5 p. m. After 5 p. m. try the 31-meter band and after 8 p. m. the 49-meter band. In a few days the log of stations heard will no doubt exceed ten stations, perhaps all locals, but this small group will offer enough information to prepare a rough graph which will point the way to more desirable stations.

## Making the Graph

On a sheet of graph paper, let the left hand margin represent "Frequency in Kilocycles" and the bottom margin "Dial Settings." From left to right across the bottom allow one line to represent one degree on the dial, and from bottom to top on the left hand side let about five lines represent 1000 kilocycles, starting at 2000 kilocycles at the bottom and continuing at 1000 kilocycle intervals to 20,000 kilocycles at the top. A station that has been heard can be

located on the graph by placing a dot where the line representing the dial setting crosses the line representing its frequency. When all the stations are placed on the graph, curves should be drawn between the dots. As all sets require several coils to cover all the wave bands, there will be one curve for each set of coils. This is true whether the coils are changed manually or automatically. To find a required station by means of these curves it is necessary only to determine at which point the curve crosses the line denoting the frequency of the desired station. This point will be very close to the dial setting for the station. Or, conversely, if an unknown station is heard its frequency may be roughly determined from the dial setting. After a large number of stations have been heard a new graph can be drawn which will be considerably more accurate than a rough one drawn from just a few stations.

Equipped with this rough graph, the beginner has made an important step toward the interception of foreign programs. Before tuning, how-



*Jimmie Wallington runs Eddie Cantor a close race for popularity on the Chase & Sanborn Hour*

ever, several general rules must be observed, not the least important of which is the fact that short wave stations tune very sharply and careful manipulation of the tuning controls is required. This seems difficult at first but the technique is easily acquired with a little practice. One must be sure that the station for which he is tuning is on the air at the time; the schedules given in the station lists are corrected monthly and are as accurate as any station list can be, in view of the fact that stations often make important changes. It is quite possible to hear European and Australian stations the year round but it has been found that these stations are very much better during the summer months when working on wave lengths above 22 meters and in the winter months when on wavelengths lower than 22 meters. South American and Asiatic stations are better during the winter. Finally, short wave stations change in volume from time to time, sometimes very rapidly and sometimes slowly with the seasons. It often happens that a station will be inaudible on one day and heard very well the next.

### Starting to Tune

Bearing all these things in mind the beginner is ready for his first station. The chances are very good that he will hear a foreign station after a few trials if he can answer "Yes" to all these questions: Is the station on the air now, according to the schedule given? During daylight hours, is it below 27 meters? After dark, is it above 31 meters? During the summer time, is it an Australian or European station above 22 meters? Or, in the winter-time, is it in South America or Asia, or is it a European station below 22 meters? If so, very slow tuning in the vicinity indicated by the graph already prepared will no doubt bring in the station. It may be that at that particular moment the station will be inaudible due to any one of the many vagaries peculiar to short waves,

while a half hour later it might be heard at good loud speaker strength. This is no unusual phenomenon, but on the other hand is quite characteristic of short wave reception. Therefore, do not become too easily discouraged; try again in an hour or so, meanwhile tuning for some other station.

### Working the Phones

In tuning for stations for which no regular schedule is given, such as telephone stations, it becomes necessary to remember that these stations usually work during their daylight hours, so one cannot expect to hear European stations after 7 p. m., Eastern Standard Time, in the United States, as it will then be past midnight in Europe. Exceptions to this rule are the English phones, which maintain telephone communication with the United States twenty-four hours every day. Stations in Asia and Australia which commence in the afternoon, their time, are heard here from midnight until dawn. A good time converter is indispensable.

Another problem confronting the beginner is the question of properly identifying a station once it is tuned in. Many foreign stations announce in English but they cannot all be expected to do so. A few tips follow:

I2RO has a lady announcer who says, "Radio Roma-Napoli."

CT1AA says, "Thay tay uno ah ah," and uses a cuckoo call repeated three times as an identification signal.

TI-4-NRH announces in English and Spanish. Several signals are used, such as a bugle call between selections, Westminster chimes, a tic-tac, and, as a rule the operator, Sr. Cespedes, whistles in code, "Estacion TI4NRH de Amando Cespedes Marin, Heredia, Costa Rica."

Pontoise commences and ends its programs with "La Marseillaise."

YV1BC says, "Yay vay uno bay thay, Broadcasting Caracas," preceding this announcement with chimes.

*(Continued on page 75)*

# The EDITORIAL Consultation

## • • • *What's New and Why*

**T**HIS might well be called the "Station Identification Number." The Index by Frequencies will be found to contain a vast amount of information relative to identification with the owner's name and mail address, the slogan used, the buildings mentioned in announcements, etc. We trust our readers will find this information extremely helpful in identifying those stations, only a part of whose announcement is caught. This information will not appear again and this issue should be carefully preserved for future use.

The June number, too, will be of unusual interest and value. The Index by Frequencies will be there but all the broadcasting stations of the world will be included in addition to those of North America. We believe that this will be the first time such a feature has ever appeared in any publication. At least, we have never seen it. We wonder if our readers realize the vast amount of research necessary to compile such a list. In North America we have the frequent and regular advices of the U. S. and Canadian governments and even in Cuba and Mexico we have occasional if irregular reports. But in the world at large we find much conflicting data which has to be checked with publications from all over the world as well as with reports from our own readers.

As we have mentioned before, the total number printed of copies of this magazine is naturally very much less in the summer months. If our readers as a consequence do not find a copy at their regular source on the first day of June, they should order a copy promptly from this office. The June issue is one that they will want to save for years.

### Ed Wynn's Chain

Unless it is just "perfect foolishness," a new broadcasting network

will soon take to the air with Ed Wynn as generalissimo. Thirty words—no more, no less,—of advertising will be permitted at the beginning and the end of each program. In addition to being the executive head of the new system, Ed Wynn will also be master-of-ceremonies for the program instead of the usual announcer. WCDA, WBNX and WMSG, all on 1350 kcs., will merge into station WYNN which will be the key of the new chain. The first link in the new net will be called the Atlantic Seaboard Broadcasting Co. and will consist of WYNN, New York, WOAX, Trenton, WDEL, Wilmington, WPEN, Philadelphia, WCBM, Baltimore, and WOL, Washington. If this smaller net succeeds, the Amalgamated Broadcasting System, Inc., will be formed to add 37 stations in the South and 40 between Chicago and Seattle. All of the stations will be independents and of small power.

Mr. Wynn has engaged 700 actors not now on the air and says he is prepared to furnish a 16-hour program schedule daily. It is said that the new system will try the experiment of using the Western Union lines instead of those of the A. T. & T.

### Better Not do It

As if there weren't enough mediocre programs on the air now, it is surprising how many people hanker to start a broadcasting station of their own.

Every once in a while we receive a letter from some reader asking if he would be permitted to build a low-power broadcasting station provided his signals did not go outside the state. In answer to this inquiry, the Secretary of the Federal Radio Commission writes as follows: "A station of very low power, the emissions of which do not themselves transcend state lines, may nevertheless inter-

fere with transmissions of stations outside the state coming into the state where the small transmitter is located." This would be an offense against the Radio Act of 1927. Offenses against this act are punishable by a fine of not more than \$5,000 or by imprisonment for a term of not more than five years for each and every offense. Our advice to inquirers is to try no broadcasting of any sort without a license from the Commission.

### Our Own Glass House

As long as our own U. S. stations are guilty of sending out their patent-medicine advertising into the ether, their silly contests which are only lotteries in disguise, and any stargazing, fortune-telling trash they think they can get away with, we have but little right to object to the atrocities perpetrated by our neighbors. Mexico particularly, although having a number of very fine stations, depreciates their value by permitting its border stations to go the limit in dishing out muck.

"The majority of these south-of-the-border stations seem to thrive on 'outlaw' advertising," complains Edwin F. Dreher, P. O. Box 26, La Mesa, Calif., "but not apparently outlaw for the Mexicans. You will note that XEFD, like the rest, takes pride in presenting its mental wizards. For two years or more radio listeners over the entire west were 'entertained' by the professional advice of one Ethel Duncan, broadcasting her wares from KNX, Los Angeles, supplying information for the most part in helping to locate long-lost false teeth, wallets, tie-pins, etc. Eventually, and not long ago, she became conspicuous by her absence. I was surprised the other evening to chance upon the old familiar voice away down at Reynosa, where XEAW, with its fairly strong power, reflects her master mind back across the Rio Grande. And so it goes. The Mexican invasion continues, with innumerable new stations and steady increases in power. What is our hope for the future? Shall we

have some kind of 'new deal' in the tangled affairs of international radio, or will we crowded out altogether and have to give up in despair?"

### Canada's Good Example

Let us hope devoutly that the coming North American Radio Conference will set us free from this abuse of the great broadcasting power. In the meantime the Dominion of Canada is setting an example in its practical prohibition of advertising that will certainly be followed by other peoples unless the broadcasters themselves clean up their own house.

The Canadian Government has taken over three stations of the Canadian National Railways—CNRA, Moncton, N. B., CNRV, Vancouver, B. C., and CNRO, Ottawa. This is the first move of the new Canadian Radio Commission toward governmental operation of the radio facilities of the Dominion. It is probable that the calls of the three stations will be changed as the CN call belongs to Morocco and was borrowed from that government in order that the Canadian National Railways might have calls beginning with the initials of the railroad. Incidentally, the new rules against advertising on radio programs in Canada, will probably cause the two U. S. networks to drop their Canadian affiliates.

### "Please Print This"

"My pal wrote six pages to R-DEX and got two lines," complains Henry Blanchard, Jr., Carlisle Barracks, Pa., who hopes he "will have better luck." Space in this publication, due to the new department on short waves, is becoming more and more at a premium. We receive hundreds and perhaps even thousands of letters each month. It is not only impossible to print them all but it is not practical even to quote from them all. We must pick those items which we believe will be of the greatest interest. We are finding it necessary to limit the number of DX reports we publish. If our readers want to help us make this magazine of the great-

est popular interest and value, they will tell us just how and when they tuned in that far-distant station and not merely give us a copy of their log.

Thousands of our readers have never brought in a foreign station for example. They are keenly interested in knowing just how some one else succeeded in doing this. How many times did they try? How did they break through the barrage of U. S. stations?

### A Brother Passes

This little note of appreciation will touch our readers, we know, as it did us. It is from Mrs. Betty Duncan, 811 W. Woodard, Denison, Texas. "In your January and February issues there were quotations from my husband, Oscar D Duncan. He passed away suddenly February 3rd. I just want to tell you as he did that RADEX is wonderful. He was a disabled veteran and the source of most of his enjoyment was through DXing. We got our Philco 91-L last August, and at the time of his death he had a log of over 300 stations. I am quite a radio fan myself and we were always so pleased when we logged a new station. Just accept my thanks for having given my late husband so much pleasure through a good radio magazine." We have already sent Mrs. Duncan the sympathy of RADEX and its readers.

### From a Chilean Reader

From Santiago de Chile, comes a letter from Professor Luis Hernandez S. (Liceo de Aplicacion, Casilla 3375), which reads in part: "I am a reader of RADEX about a year. It has been a great help for me to hear the broadcasting stations of Buenos Aires and Montivideo, and with 'What's on the Air Tonight,' I can hear every night the programs of WGY-W2XAF in a splendid way. We have several broadcasting stations in Santiago, Valparaiso, and Puerto Magallanes. I have an RCA-Victor R-7." The list of Chilean stations furnished by Professor Hernandez will appear in the



*The Neil Sisters—Lucille, Ann and Gwyneth—blonde singers of the blues, came to radio from vaudeville. On the Armour program Friday nights at 9:30 p. m. EST. via the NBC studios in Chicago.*

World Index in the June issue.

### A DX Club Directory

"Why don't you give a list of good DX clubs, their addresses, a few rules and regulations, etc., concerning each?" suggests L. E. Wallace, 110 N. Duval St., Tallahassee, Fla. "Just list only those clubs that have a good backing or have otherwise proved that they can hold together. Many DXers want to join clubs, but don't want to join those a great distance away, because they don't get the tips in time. If they have a list showing all the good clubs, they can then decide which one they want to join without having to write to all of them."

"Four other DXers and myself work together in the same office and have been in friendly competition," writes H. Crosby Forster, 124 Glenn Ave., Ottawa, Ont. "We would like to join some DX clubs so that between us we would have membership in five clubs across the continent. Could you

*(Continued on page 76)*

# MINGLING *with the* DXers

## • • • "Radioing Around"

**W**HY do so many newspapers ignore the DX feature of radio? Picking up local programs is but a small part, perhaps the smaller part, of the pleasure of radio. The Newark News is an outstanding example of a newspaper which has capitalized upon the interest of the public in the distant station. They not only have a membership of 1800 in their DX club, with dues at \$2.00 for the first year and \$1.00 for subsequent years, but their DX page sends their paper all over the country. We wager that it goes into towns that do not get even the New York Times.

Radio stations, too, are over-looking a powerful method of generating interest in radio when they fail to present at least a weekly feature of DX news. Radio becomes little more than a phonograph when it is used solely for local programs. Its greatest enjoyment potentialities lie in its marvelous power to bring the whole continent and even foreign countries into the home. No one ever received the thrill from local or chain programs, enjoyable as they may be, that the DXer gets from the far-distant station.

### After Half a Decade

"I am returning to the fold of the DXers after an absence of over five years," writes C. Russell Riley, 215 Walnut St., Grafton, W. Va. "All of my former DXing was done in the days of crystal sets and WD and UV tubes. KFI then was an accomplishment over which we bragged. I used RADEX then and found it most useful. As I remember it, then the logging methods were practically the same with spaces for indexing station calls, but little or no editorial comment. Of course as soon as I got a chance to return to DXing, I immediately thought of RADEX and like it much

better than I did in 1924 when I first used it. I have had what I consider very good success in my attempts at DXing this time. I have a Philco 71 with 7 tubes and of the latest model. I have been logging stations since Christmas day, and to date have 240, with 15 on the west coast and 17 in Cuba, Canada and Mexico. I can get very few daytime stations, and practically none at night till after 11:00 P. M. My location is known as the worst area in town for reception, because it is in the loop of a street car line. The track is unbonded and the return takes the line of least resistance, namely, through water pipes, gas mains, etc. Of course, radio reception benefits little by this. Hence I do my radioing after 11:00 P. M."

### Can't Get Foreigners

"I really can't get over the fact that so many DXers get so many foreign stations," questions Glen Windisch, 2542 Blaine Ave., Toledo, Ohio. "In the year and a half I have been DXing I have had only one station outside of North America, that being HJN, Bogota, Colombia. The station on 725 keys. is no mystery. It is one of the four Vancouver stations which is supposed to be on 730. I have a very nice letter from CKMO, which says that they broadcast DX programs every Monday, Tuesday, Thursday and Friday, commencing at 11:30 P. M., PST."

"I cannot understand how some of your readers can get out of the country beyond Mexico," concludes Chester Schoenfeld, 45 Stevenson Street, Buffalo, N. Y. "I am using a Philco 7-tube and have logged 236 stations from 43 states since December 3rd." We know how tantalizing it is to read the many reports of the reception of other continents and then not be able to tune in a single one of them. Yet we also read of listeners who have



tried to get these foreign stations for months, and even years, and then suddenly they begin to come in. We can only suggest that our readers make a list of the three or four foreign stations most commonly reported, such as YV1BC, HJN and Poste Parisien and then keep after them until they get them.

"There seems to be some difference of opinion as to what German broadcasts on 1157," comments Miss Florence Haist, Box 157, Lindenwold, N. J. "I sent a report of reception to Heilsberg, believing that the station was located there. My letter was forwarded to the Sudwest-deutscher Rundfunk, Frankfort-am-Main and I received a reply from there saying that the program I heard was the Frankfort station. As further proof, they sent me a printed copy of their early morning program of January 14th which agrees in every detail with my reception of the station on that date. Incidentally, it is my most distant verification and am I proud?" We showed Frankfort-am-Main on 1157 in both the January and March issues, but a list of German stations just revised by the Department of Commerce shows Frankfort on 770 and Gleiwitz on 1157.

Incidentally Miss Haist wants to know why our DX Calendar gives a morning program as of the night before, when all the clubs list by actual dates. It seemed to us that all the programs for any one night ought to be listed together and not have those before midnight in one list and those after midnight in another. We hold no particular brief for the method adopted, and if our readers would prefer to have the form used by the clubs, and they are all out of step but Jimmy, why Jimmy will get into step.

#### He Tours Japan

"Between 2:00 and 3:00 a. m., PST, before the east and middle-west opens up, my dial is little more than a tour of Japan," comments James R. Tierman, 1470 Waller St., San Francisco, Calif. "And as to volume, there have



*Harriet Hilliard, pert soloist with Ozzie Nelson and his orchestra, has joined the "trousers-for-women" movement in her appearances from the Terrace restaurant of the Hotel New Yorker from which she broadcasts several evenings each week over the CBS.*

been several occasions when I could have awakened the neighborhood if I had given full volume to the high-pitched, rapid-fire chatter which they seem to feature almost continuously. It is seldom that you hear anything worth while. One night in February, however, I enjoyed a half-hour's recital of classical music on a grand piano—and announcements of course, in Japanese. It was on the network, JOAK, JOBK, etc., and came in clear on four different places on the dial. Your correspondents are right that the Japs do announce in English once in a while. I have heard station announcements from both JOAK and JOIK, but have never

bothered to verify. I only wish that I had as much luck with Australia as with the Japs. Working with a Courier and a 100-foot aerial, I get Australians on occasions loud enough to recognize the musical pieces played, and, what is more aggravating, to recognize the English accent of the announcers. It is very tantalizing. But, for the life of me, I can't make out a word they say, even with ear-phones."

### Tuning the Europeans

"It is much easier to hear a European station than a trans-Pacific one here on the east coast," informs Ray LaRocque, 135 Highland St., Worcester, Mass. "I have heard Poste Parisien as early as 4:30 p. m., which is before sunset out here, and they come in good, in fact louder than the New York stations at times. As I understand the French language, all announcements can be understood and at this time of the afternoon they usually broadcast phonograph recordings till about 6:00 p. m., when they sign off. I have also heard the London station on 843 kcys. before they sign off at 7:00 p. m. This station is not so regularly received because CKGW interferes. I am awaiting verifications from both. Here are some of my European catches: Trieste, Italy (verified); Stuttgart, Germany (verified); Heilsburg and Hamburg, Germany; G2LO, London, and Poste Parisien. The last four verifications are expected this month. I suggest that RADEX readers try for the Heilsburg station between 1:00 and 2:00 a. m., EST, daily on 1157 kcys. They come through very loud. I might add that although I have had some luck in logging Europeans I have never heard a trans-Pacific station, not even Hawaii."

### Picking Up Australia

"How do the rest of the listeners fare in picking up Australian stations at this time of the year?" inquires Warren R. Davee, 222 N. Monitor St., West Point, Nebr. "I have found that

Australian stations come in best from September to November and from February to April. Have been hearing Australian and Japanese stations since 1927. I use an antenna 45 feet high, consisting of three horizontal wires spaced  $2\frac{1}{2}$  feet apart. This antenna is 84 feet long. Lead-in is taken off the west end and all three wires are brought down to about three feet from the receiver. The ground consists of an underground wire the full length of the antenna. The receiver is a midget Ellsworth consisting of three 224's, one 227, one 245, and one 280 tube. The receiver is perfectly balanced to receive the waves at the maximum efficiency. KSL can be tuned in here at high noon on the loudspeaker. WTAM, Cleveland; CKY, Winnipeg; KDFN, Casper, and WWL, New Orleans, all come in at high noon. But at night there is no limit."

### Radexing in British Columbia

"On the night of January 14th, while listening at approximately 1:00 a. m., PST," writes Edmund M. Neel, P. O. Box 365, Duncan, V. I., B. C., "I heard very faintly someone say 'Hammond made a century,' followed by various other details of a cricket game. Unfortunately before anything further could be heard the station faded out. The station, whatever it was, came in between 900 and 920 kcys. As radio reception out here during January was extraordinarily good, it might not be outside the realms of possibility that I did pick up Paris. My set is a Marconiphone VIII, battery model, and when I received this cricket broadcast I was using headphones. We are situated on a hill some 200 feet above the city of Duncan, and suffer from no interference of any kind. My aerial is 75 feet long, with about 35 feet of lead-in, and is raised about 20 feet off the ground, and is strung in direction NW-SE. We pick up various Japanese stations with regularity, and also have picked up XGOA in Nanking."

"I have an acknowledgement from 4RK, Rockhampton, Australia, of my

outlined reception as to conversation, etc., and intermission time, during which time the crowd is proceeding to the pavilion to the bar, which will be greatly enjoyed on this hot afternoon—the players retired to their quarters for ‘tay’ and ‘cigarettes,’” writes J. H. Hackett, 2117 Marlon Ave., Merchantville, N. J. “I also have an acknowledgment from 7HO, located at Hobart, Tasmania, stating that my reception was from 4RK, Rockhampton.”

#### From Hawaii

“We who live in Honolulu are very apt to become DXers, as we have only two local stations,” writes H. Harding Jones, 2531 Rainbow Drive, Honolulu, Hawaii. “Our conditions for DXing are very favorable, due to the fact that we have only the two local stations of rather low power. I have had my Radiola No. 66 since June, 1930. I am 2100 miles away from the nearest station which would be in San Francisco. My record in number of stations logged will not come up to many that I read about in your January issue, but I do consider it very good, taking into consideration my location. I have logged 178 stations, which include 37 states, Japan, Australia, New Zealand, Mexico and Canada. The Mexican stations are strong on ‘Slip 25c, 50c or \$1.00 into an envelope and address Eagle Pass, Texas, etc.,’ but very weak on confirmations. Japan, Australia, New Zealand and Canada are very prompt and courteous with their replies.”

#### Argentine from Newfoundland

“At 4:15 A. M. GMT, I picked up LR4 on 990 keys,” reports R. S. Furlong, 315 Duckworth St., St. John’s, Newfoundland. “The announcements were in Spanish and I was only able to detect the words, ‘Radio Internacional Buenos Aires.’ They were radiating records, I think, since certain of the tunes were American dance hits; whilst the others were tangos and the like with Spanish words. I have asked the station for verification. The unusual thing is

that at the time I was unable to bring in any of your stations. WBZ was silent, though I had been able to hear them a little earlier in the night. The only other station that I heard at the time was another Spanish-speaking one at about 910 which I believe to be a Mexican. This station was received on two sets. The first was a Pilot ‘Host.’ This is a midget four-tube superhet. Reception was obtained with only an inside aerial. I then picked it up with an I.C.A. ‘Conqueror.’”

#### His First Foreigners

“By following Figure No. 4 on page 3 of the February RADEX,” informs Kenneth R. Leu, 1011 Haskell Ave., Rockford, Ill., “I was able to install headphones on my set with marvelous results. I have been DXing for ten years, but I had never been able to pull in a foreign station, with the exception of Cuba and Mexico, and of course Canada. However, my first night with the phones and the aid of pages 74 and 75 of



“Babs” Ryan just bubbles over with enthusiasm as she sings the choruses to Fred Waring’s dance tunes on the Old Gold broadcasts, Wednesdays at 10:00 p. m. EST. on the CBS-WABC net.

the February RADEX, I pulled in 2YA, KGU, and several other foreign speaking stations that I could not identify. Two nights later I logged WKAQ and YV1BC and have sent for veris from both. I have logged a total of 531 stations from every state in the Union and seven of the nine provinces in Canada. I am using a Gulbransen 10-tube super and would like to hear from other DXers using the same make of set. Also would like to hear from owners of Scott all-wave receivers as I am greatly interested in that set."

### "It's a Real Sport"

"I have tuned in a little 8-watt station (VE9EK), a small amateur Canadian station some forty miles from here," reports F. Gaston Fortier, C.S.E., 80 de Salaberry Ave., Quebec, Que. "They broadcast every Sunday morning from 10 to 12 o'clock. It is situated in Montmagny, Quebec. I have already over 100 letters in transit. I hold actually 89 verifications on hand. Every morning and evening I am watching the mail carrier. I get sometimes three or four and some other times over a dozen. It is a real sport for me now. Crazy? If it is, I like it very much; a real good sport is what I call it. All this is due to RADEX. It has made me very happy during this winter season and shall be always an intelligent pastime. My working note books are getting full one after the other. My file, containing copies of letters and verifications attached thereto, is getting very big."

### B. C. vs. S. W.

"I find my interest to be about equally divided between the long and short waves," comments K. P. Williamson, 1610 Sherbrooke St., W., Montreal, Que. "I think, undoubtedly, there is more thrill attached to DXing on the b.c band than on short-wave, but on the other hand the short waves offer more variety and the added pleasure of never knowing just what is going to pop up. My only disappointment in connection with

the short waves is the fact that I have been unable to contact the well-known VK2ME and VK3ME, but I feel that it won't be long now before I will be able to pull in one of the 'down under' stations. I was very favorably impressed by Mr. Page Taylor's section in the March issue of RADEX, as I am sure all the short-wave fans were."

### From Farthest East

"Look at the map of Nova Scotia and see where the town of Sydney Mines is situated," requests George F. Bartlett of that city, "and when you consider that we have no stations to the east of us, I believe you will agree with me that I haven't done so badly in picking up stations on my radio. I have a 5-tube lowboy Philco and have listened plainly to KFT and KNX, both in California, and can get XER, XEAW and XEPN every night in the week, also KSL in Utah. I have also picked up a station at least a dozen times on 413 meters giving no call letters but announcing as 'The Athlone Station, a new high-power station in Dublin and Cork, Ireland'. This comes in very plainly."

### Verifies Moscow-Stalin

"Have just received a letter from 'Moscow Radio, Solianka 12,'" reports Irving Hendrickson, 33 Dane Ave., Sta. C., Worcester, Mass., "and they inform that they 'are very glad to hear that you are getting our station well' but no word about confirming or denying my report of reception. Am I entitled to call this a verification or not? During the winter they broadcast English programs every Monday, Wednesday, Friday and Sunday from 23 to 24 o'clock Moscow time. The station I heard you list as Moscow-Stalin on 707 kcs. Their address is Moscow Solianka 12, Trade Union Radio Station, Palace of Labour."

"About Dec. 1, 1932, I listened for 45 minutes to a program from JOHK and JOLK (500 watts) in the English language and sent a request for verifications," remarks Charles

*(Continued on page 77)*

# WHAT to DO in CASE . . . . .

• • • *By the* TECHNICAL EDITOR

*I wish to attach a pair of headphones to my Crosley, model 127 receiver, but first must know how to locate the output transformer, power tubes, and voice coil wires. Will you explain?*

This receiver uses two -47 pentode power tubes, although a few sets were fitted with PZ tubes which are identical to the former.

The output transformer is attached to the loud speaker unit. You will find a plug that is used to connect to an outlet socket on the rear of the chassis of the receiver. This plug has a cable made up of four wires—two green and two black. These wires run to the loud speaker and outlet transformer.

The green wires connect to the plates of the two power tubes through the socket, and then go to the terminals of the output transformer primary coil. Two short wires, soft and flexible, go from the transformer to the voice coil, which is a part of the "floating" parchment cone. These are the voice coil leads, and either one may be opened for the insertion of the switch.

## Short-Wave Adapter With Philco

*In order that I may connect my short-wave adapter to my Philco, model 95 set, I must know the location of the first radio frequency and the detector tubes. Please tell me where these are located.*

The Philco 95 has nine tubes—three -24's which are first, second and third radio-frequency tubes; one -27 detector; one -27 detector-amplifier; one -27 first audio; and two -45 power tubes. This is not a superheterodyne circuit, but a straight t.r.f. set, which has, of course, no oscillator.

Looking down upon the set from the rear: The two -45's in the left rear are the power tubes; the -27 in left rear is the first audio; the

-27 just in front at the left is the detector-amplifier; the -80 is the rectifier. Of the four tubes across the front, from left to right, looking down from the rear: The first -27 is the detector-rectifier (to which the adapter should be attached); the three -24s are the r.f. tubes, of which the last, or right-hand one, is the first radio tube (to which the adapter may be attached).

## Fading and Blurring

*I have a Philco 11-tube set that fades and acts blurred and distorted at times during evening reception. Also, the pilot light flickers. What can be done to remedy the trouble?*

Fading accompanied by blurring distortion is characteristic of most distant reception, and is attributed to radio-wave interference from different stations. This effect is made more pronounced by the automatic volume control, which brings the signal in strong at its lowest field



*Introducing the stars of the new Cliquot Club program, on the Blue network Mondays at 8:00 p. m. EST. From left to right, Harry Reser, conductor of the Eskimos orchestra; Jimmy Brierly, tenor soloist; Albert Kennedy "Rosey" Roswell, the Cliquot Toastmaster; and Gay, Ellis (Annette Hanshaw) blues singer.*

strength when the wave interference occurs. The flickering of your pilot light does not indicate a fault in the operation of the radio circuit. It may be due to a variable load on the heater winding or plate windings of the power transformer, or possibly in the pilot lighting socket or circuit itself. The Philco light is not attached so as to get voltage fluctuations of the power input line through it. The distortion you observe is common experience of every radio set owner, and is a disagreeable effect of radio reception.

#### Using a Wave Trap

*My two-tube Insuline (I.C.A.) a.c. receiver tunes broadly. I am not using an aerial; only the ground. Will new tubes or a wave trap help sharpen tuning?*

New type tubes will not increase selectivity; that is something which comes from a multi-tube circuit. One and two-tube sets are usually broad in their tuning. You must use an aerial to get distance. Try a single wire about 60 feet long placed at right angles to adjacent power or trolley-car wires.

A wave trap can be made by winding about 75 turns of fine No. 28 enameled wire on a small tube about one inch in diameter. Connect a variable condenser (.0005 mfd.) across the ends of the coil. One side (rotor) of the condenser-coil assembly should be attached to the aerial and the other to the antenna terminal of the radio set.

#### Dial Out of Place

*I have a Pooley RCA model 21, 8-tube set, which is not very satisfactory in operation. The set takes half a minute to warm up, and I have difficulty in separating stations 10 to 20 kilocycles apart. The tuning is accurate until 1200 kcs. is reached. Stations also tune in at less than their wave lengths, for I can get a station on 1370 that ought to be on 1430 kcs. From 1370 to 1500 kilocycles I can get only one local station, and that tunes very widely over the dial.*

The 10-kcs. selectivity of this set is very good, but cannot be expected within a hundred miles of a powerful station. For the type of tubes in your circuit we should judge that thirty seconds is a normal warming-up time. We do not advise changing to any other types of tubes in this set.

It is probable that the dial calibrations on your receiver have become displaced on the condenser shaft, and that to correct for proper tuning the capacity values of the trimming condensers have been decreased. This would allow proper tuning over the greater portion of the dial, but as high frequencies are reached the tuning discrepancies become greater and greater. This can be corrected by increasing the trimmer condenser capacities to about maximum value, and then resetting the dial correctly on the condenser shaft. The entire circuit, then, must be carefully rebalanced.

#### Excessive Uncontrolled Volume

*My Sonora A-31 receiver does not cut down in volume. Some stations will not stop with the volume control turned entirely off, and this makes broad tuning on all stations. Condensers, tubes and resistors test perfectly. The synchro-tone modulation does not work well, and just a slight turn of the volume control gives an enormous amount of volume. The trouble has been getting worse for some months, and now I cannot get moderate volume from the loud speaker.*

It is likely that the volume control resistor has become partially or completely short circuited. When this occurs in a cathode type of control there will be a minimum bias on the radio frequency tubes, thus the turning of the control would have no effect on the volume. This short may occur at the resistor shaft and this should be carefully inspected. Such a volume control also has a shunted fixed condenser, which, if shorted, causes similar trouble.

It might be well to replace the synchro-tone modulation tube in this system. The fact that the trouble came on slowly indicates that this may be a seat of trouble. When the electron or heater emission of this tube falls off, the automatic bias provided by it is reduced, and when finally almost zero the volume can no longer be controlled.

### Battery Eliminator

*How can I run an "A" eliminator on a seven-tube radio battery set; and what type do you recommend?*

An eliminator is not "run" on the radio set, but the set obtains its power from the eliminator. It takes the place of the filament battery, or the "B" battery, as the case may be. In the case of the A device, it converts the 110-volt a.c. power in the house circuit to a smooth current of lower voltage for the filaments of the tubes in the set.

A good "A" eliminator is perfectly satisfactory for heating your tubes. There are two general types. One uses chemically prepared cells—lead and aluminum plates immersed in a solution of borax or boric acid; and the other uses a dry electrolytic type of rectifier. The former is effective but has certain disadvantages. The latter works nicely, but the units require frequent replacing when chemically exhausted.

### Short-Wave Converter

*Can I use a short-wave converter in connection with my Silvertone tuned-radio-frequency nine-tube receiver that I use at present with a General Motors remote control that makes my receiver a superheterodyne?*

The General Motors remote control unit consists of a tuned input circuit feeding into the control grid of a detector that is coupled to an oscillator. It is just like a short-wave converter, except that it is used on the broadcast band only. Thus, in this remote control unit, the signal is brought into the control and



*Sweet little Patti, youngest of the Pickens Sisters, is just seventeen. Between preparatory courses for college she collects odd goldfish and plays ping-pong. The Pickens Sisters are heard several times weekly on the NBC.*

conveyed to the receiver at a broadcast frequency, and it is possible to tune in any station in the broadcast band while your Silvertone is tuned to but one frequency. Thus remote control tuning is obtained.

If a short-wave converter is attached to the antenna and ground system of your receiver the system would differ in no way from your present unit, except for the length of the waves being received. In practice, however, oscillator harmonics would probably interfere with the high-frequency signals, so it is suggested that you attach the short-wave converter directly to the receiver rather than to the remote control device. The latter must be disconnected when the short-wave converter is used. A very short lead is required between the short-wave converter and the receiver, whereas a long wire may be used between the remote control and the radio set.

The remote control unit actually makes a superheterodyne circuit out

of your Silvertone radio-frequency set by using its radio-frequency tubes as an intermediate-frequency amplifier. And any short-wave converter does likewise; there is no need to operate these two pre-connected devices together to get the superheterodyne effect.

### He Gets "Half-Harmonics!"

*I use a small two-tube regenerative set that brings in some stations on what I call "half-harmonics." For instance, I get KNX on 525 kcs., whereas it broadcasts on 1050 kcs. Engineers tell me this is impossible for harmonics are two, three, etc., times the broadcast frequency. Yet I know this happens, and I hope you can explain the strange phenomenon.*

Of course, just as radio men tell you, there is no such thing as a "half-harmonic." Harmonics are always multiples of the original broadcast frequency—never fractions. (See the January, 1933, issue of RADEX. As KNX uses 1050 kilocycles, its next harmonic must be 2100 kcs., which is above the range of the ordinary broadcast radio receiver.

However, a regenerative receiver produces a considerable amount of harmonic energy, and it is possible to receive signals on the second harmonic of the receiver (when tuned to a certain frequency). For example: If your receiver happens to be tuned to 525 kcs., so it will oscillate, its own second harmonic will be 1050 kcs. The set is thus made very sensitive at 1050 kcs. in addition to 525 kcs. Thus there will be a decided tendency to pick up a station on 1050 kcs., or KNX. The same applies to other stations on different frequencies within range of the set.

### 56 Does Not Oscillate

*The new type 56 tubes work with great satisfaction in my Atwater Kent model 72 receiver, except when in the oscillator. Why is this, and is there something that I have not done properly?*

The substitution of a 56 in place of

a -27 in an oscillator circuit of any superheterodyne set has no advantage. See page 22 of the February issue of RADEX. The oscillator, although vital in the superheterodyne circuit, has little effect on the volume, sensitivity or tonal qualities of the receiver.

Your oscillator will not work with a 56 tube, and you will have to return to the -27. The 56 should work well in other positions. There is some instability due to the high amplification factor of the 56 and a difference in internal capacities. When placed in a very critical circuit, such as the oscillator, the balance between tube characteristics and circuit design may be upset and the trouble indicated will result. A complete redesign of that particular part of the circuit in order to use the 56 is not practicable.

### New Tubes Cause Detuning

*Why is it that when I placed new 56 and 58 tubes in my General Electric radio set it tends to oscillate and tune improperly with some distortion?*

When using a 56 as an oscillator the amount of feed-back is increased because of the improved factors of the 56 tube. In order to maintain stable operation it would be necessary to redesign some of the circuit. Substitutions of the 56 can not be made in such critical circuits. See answer to preceding question. When 57s and 58s are used in radio-frequency and intermediate-frequency sockets the receiver may become detuned because of the difference in characteristics of the tubes. This is more noticeable only in very critical circuits. Therefore, it becomes necessary to retune and adjust the condensers of those particular circuits using the 58 tube to eliminate distortion and improper tuning calibrations.

### Poor Tone

*When I inserted new 56 type tubes in place of the -27s in my General Electric receiver it increased the vol-*



ume and power but changed the tone to a lower quality. Can this be remedied?

When you replaced the -27s in your 9-tube G. E. set you substituted also a 56 in the oscillator and the second detector. The 56 does not make an efficient oscillator in old sets, but serves well as a second detector and audio amplifier. Your oscillator, which is the tube second from the right when looking down upon the chassis from the front, must use a -27 tube. The greater amplification factor of the 56 caused higher feedback and caused tone distortion.

#### Automatic Volume Control

*I wish to install an automatic volume control in my model 80 RCA receiver. If this can be done, I would like to have simple instructions.*

The RCA 80 can be fitted with an a.v.c. tube and a 56 is recommended for this purpose because the additional filament drain will be negligible. The grid return circuits of the first radio-frequency tube, the first intermediate-frequency and second intermediate-frequency tubes, are opened between the lower ends of the radio-frequency transformer coils (secondaries) and the ground, and fixed condensers of 0.1 mfd. capacity are inserted in series. Then procure three resistors of 250,000 ohms each

and attach to the grid returns on the tube side of the condensers just inserted. Connect the outer ends of the resistors together and run a short lead to the plate of the new 56 a.v.c. tube.

The automatic volume control tube is installed as follows: The cathode is connected through a 25,000 ohm resistor to a tap on the first filter choke coil which also happens to be connected to the speaker field coil. The grid of the tube is connected to the plate of the second intermediate-frequency tube, a -24, through a small .00025 mfd. by-pass condenser. The grid also is returned to the cathode circuit of the same 56 tube as shown by passing through a 2 megohm resistor, and the plate is by-passed also to the cathode by means of a 0.5 mfd. condenser. The plate of the 56 then is grounded through a 100,000 ohm resistor.

The heater of the 56 a.v.c. tube is connected to the 2.5-volt filament supply. After all is completed it may be necessary to readjust the circuit for radio and i.f. alignment for perfection of tuning. We do not advise the use of 57s or 58s elsewhere in the receiver when this control is added.

#### Condensers Do Not Track

*My model 56 Majestic set works well from 550 to 850 kcs., (555 to 350 meters) but fails to give satis-*

*Have you heard the "Radio Rubes," the four hillbilly singers who are heard Sunday morning at 11:00 on the "Red"? Left to right: John Laby, Rufe Davis, Neal Laby and Arty Hall.*



fraction from 350 meters down (850 to 1500 kes.). How can I remedy this trouble, and will some of the newer tubes help?

New tubes cannot help this condition, and we do not advise them in this particular circuit. Your set was carefully designed for the particular tubes now in use.

Your trouble seems to be one of "tracking" of the oscillator and tuner condensers on frequencies above 850 kilocycles. The manufacturers of this superheterodyne receiver have provided facilities for oscillator padding which allow for perfect tracking of the oscillator exactly in step with the tuner system. When both of these circuits track properly the tuning will be perfect from end to end of the dial. Since this matter is one requiring much experience and ownership of certain precision apparatus, we advise that you obtain the services of a competent repair man to look into this phase of probable trouble.

#### Silencing Dual Speakers

*My Lafayette 10-tube set uses new type tubes with -47s in the power*

*output, and it has dual-speakers. How can I find the voice coil wires so as to connect headphones as suggested in the February issue of RADEX?*

We suggest that headphones be connected as shown in Figure 4, page 3, of the February issue of RADEX. You will need two wafer adapters such as is shown at B in Figure 2, page 2. The phones are then connected as shown in Figure 4, with two condensers of 0.5 mfd. capacity each, and a resistor of 25,000 ohms in series with the plate lugs of the two adapters selected.

The silencing switch S is placed in the lead from the output transformer to the voice coil of the largest speaker. The voice coil of the additional or smaller speaker is connected by soft flexible wires across the voice coil of the larger speaker. The dual speaker must be treated as a single speaker, and the silencing switch placed in one of the leads from the output transformer, as mentioned on page 4 of the February issue. The transformer and voice leads are a part of the dual speaker arrange-

*(Continued on page 75)*

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# *The* DEPARTMENT of MUTUAL AID

## Answers

"In answer to Mr. E. F. Gross of Brooklyn," writes B. L. Ahman, 3313 Westerwald Ave., Baltimore, Md., "I would like to say that the station he hears around 725 is not any of the Vancouver stations, because I hear them and that station also. Its signals are strong enough to let me hear the music, but the announcements are too weak. I have been hearing this station every morning that I have been DXing for the last several weeks. The first time was about the first of February. It must be 2YA, since that's the only one that I can figure it to be. Tell Mrs. Weaver of New York City that the short-wave lists in your December issue carry WPEF, Bronx, New York, as on 2450 kcys., and as she tuned in on 1220 kcys. she was probably hearing a harmonic. 1225 was probably the frequency she had. Maybe the burglars weren't so far away after all."

"I notice that C. H. P., of Blenheim, Ont., is puzzled by receiving CFCO on 870 kcys., when they are operating on 1010," writes Edward C. Houlgate, 351 Adelaide St., London, Ont. "I cannot explain this, but I have experienced the same thing twice. When our local CJGC was using 910 kcys., I received them one evening on 950 kcys. also. I also heard XED on 1000 kcys. one evening when they were operating on 960. You will note that in each case the station was heard 40 kcys. from its regular wave. These stations were not operating off frequency on these occasions as they were both on their correct frequencies at the same time. I put it down to some peculiarity of the superhet circuit."

"In answer to a letter in the March RADEX by Mr. J. W. Brauner," remarks Edwin E. Hatch, 5508 North

Mascher St., Philadelphia, Pa., "the station that he heard last Christmas morning broadcasting greetings to the Islands of the Pacific, was VE9JR in Winnipeg, Man., on 25.60 meters. I heard the entire program here in Philadelphia and I certainly enjoyed it. I also have a new Police station to report. The station is WPFJ located at 33 Washington St., Toms River, N. J. I heard them testing from 9:09 till 9:30 p. m. EST., March 6th. Their frequency was given at 2430 kcys. and they are using 50 watts power."

"I am almost positive Mr. Rowe of Grand Junction, Colo., heard that wrestling match from 4QG in Brisbane, Australia," opines Kenneth Page, Silver Creek, N. Y. "The first time that I ever tuned in 4QG, I listened to a wrestling fight from about 6:20 a. m. to 7:00 a. m., EST. Wrestling in Australia differs from that in this country in that it is fought by rounds. This is commonly known as the Australian style of wrestling." Kenneth wants to know how to get a verification from LR-4 in Buenos Aires, Argentine.

"In regard to the letter of Mr. T. W. Rowe of Grand Junction, Colo.," advises Raymond Corbett, 619 12th St., Sacramento, Calif., "there is hardly a doubt that the station on January 28th broadcasting that wrestling match was 4QG at Brisbane, Australia. I received this station quite often, and it comes in with a good signal. It would be the only station on 760 kcys. that would say, 'You ought to see the crowd that is here tonight.'"

"In the March RADEX, Harry M. Gordon, of Erie, Pa., says that he has 22 copies of RADEX," comments Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo. "You might tell Mr.

Gordon that I have 24, and I know some people who have as many as forty. I started DXing with my first copy of RADEX, and using an old Atwater Kent I logged about 100 stations. I now use a Philco Model 87, on which I have logged 308 stations."

"I notice in the April issue that P. J. Hauss wants the identity of a new station in Mexico operating on about 1170 keys., but announcing 1185," comments Franklyn Hoyt, 777 William St., Bridgeport, Conn. "He believes the call was XETN. Is it possible Mr. Hauss heard a harmonic of XEPN announcing their frequency of 585 keys.?"

"I want to say a word about the station on 915 keys. which seems to be causing some controversy," comments W. D. Crawford, 619 Victor St., Winnipeg, Man. "I have had a station there also which broadcasts without announcing, but I myself think it is the Mexican station XEW."

"Someone in the January issue of RADEX was trying to find the call letters of a Mexican station which rarely announces its call letters, on 910 keys.," remarks J. P. Creal, Jr., La Luz, N. M. "This is very descriptive of XEW, Mexico City, which I get on 920 keys."

"In answer to the inquiry of Howard R. Garrett of Toronto, Ont., in the February issue," reports Merton D. Niles, Hardwick, Vt., "WDEV, Vermont's best station, has increased its time on the air and is now broadcasting from 7:30 to 10:30 a. m. and 11:30 a. m. to 6:00 p. m. daily except Sunday."

### Questions

"Can any of the readers of RADEX tell me who or what AR3, DR3, DN3, DC3 are?" inquires H. S. Trumble, Rt. 1, Box 147, Port Arthur, Texas. "I have picked them up several times on 760 keys., which is evidently on a harmonic. Each one when finishing a conversation, usually of two or three sentences, ends by saying, 'O. K., go ahead.' Then another will cut in and say a few words ending in the same

way. Would also like to hear from any of the readers of RADEX who have tried out the new type tubes in a Philco 11-tube set, Model 1931, No. 111, what advantages were gained, if any, by the substitution."

"Can someone please enlighten me as to what or whom I heard at 3:13 a. m., EST., February 12th?" inquires Miss Lilian M. Bethel, 323 First St. N. E., Massillon, Ohio. "This is what I heard: 'WOWCY, WOWCY—Ice, Sleet and Ice—Air.' This message was heard on 750 keys., while attempting to tune in KGU. This is an incomplete message with seemingly a humming sort of interference. I take it for an airplane, as I understand they use five letter for calls."

"What Jap is on 1180 keys.?" asks William Ellis, P. O. Box 13, Hughson, Calif. "He announced as 'JO—K, in N———, H———.' The third letter of the call sounded like a 'Z' but it could have been C, E, B, D, etc. This Jap is on every Sunday morning from 1:00 to 3:00 a. m. PST. They announce in English around 2:00 a. m. I logged YV1BC and HJN, with HJN the better of the two for volume. Both stations came in with fine volume and very little fading. Sure am anxious for the veris." R. M. Ballard, Visalia, Calif., also reports a new JO on 1180 keys.

"Friday night, March 10th, a few moments past 7:00 p. m., CST.," writes Miss C. A. Brinkerhoff, 317 Clinton Ave., Oak Park, Ill., "I tried for XEW as I like to listen to Spanish, but this is what I heard, '910 keys.' in Spanish, then English, then 'Costa Rica,' then XEW drowned out everything. Do you think I had TIGR? Do they announce in both Spanish and English?"

Says Bill Hanks, R. F. D. No. 3, Fulton, Mo., "I have been receiving for the last two Saturday nights and Sunday mornings a station whose announcer has an English accent. Usually church services are broadcast from 4:00 to 6:00 A. M., CST." As this

*(Continued on page 80)*

# NEWS *in the* High Frequencies

. . . *By the Short Wave Editor*

**A** LARGE number of short wave fans are turning to the police stations for variety and entertainment, but if they wish to continue this pastime there are certain things that should be avoided. If these things are continued we may in time find ourselves cut off from the police broadcasters as we have been from the trans-atlantic telephony stations. A letter has been received from Mr. John P. Smith, Deputy Commissioner of Police of the City of Detroit, in which his own views regarding this practice are plainly given and it is our belief that officials in other cities using police radio will agree with Mr. Smith. The letter follows, the italics being our own.

"I am emphatically opposed to citizens proceeding to scenes of crimes of which they are apprised over our radio, as it has been proven on many, many occasions that they are a detriment to the police in their investigation, and where large crowds congregate it is almost impossible for the police to adequately handle the situation.

"\*\*\*\* Sometime ago I caused an investigation to be made in this matter as we were thinking of broadcasting our messages in *code*, but \*\*\* it has not been deemed necessary to resort to the *code system as yet*."

## Most Interesting Station

This month we introduce our readers to Sr. Amando Cespedes Marin, builder, owner, operator, engineer, announcer and entertainer at station TI-4-NRH, the world's most interesting radio station. During the five years of its existence this little station has built a reputation that will probably never be equalled by any other. Under its original call letters NRH, and using only 7½ watts power this station established several almost unbelievable distance records

and made friends for its owner in every part of the world.

Sr. Cespedes recently installed a new 200 watt transmitter which has been heard very well by many of our readers. Anyone who has not yet heard these programs should tune daily on 31 meters from 5:30 to 6:30 p. m., EST. This station is easily identified by several characteristics. Announcements are always made in Spanish and English by both Sr. Cespedes and his daughter, Señorita Lydia Cespedes Arias; the programs always close with the Costa Rican National Anthem; Sr. Cespedes plays bugle calls several times during each program, and quite often he whistles his call letters in code. Formerly, a tic-tac and Westminster chimes were used as identification signals and it is expected that they will continue to be used from time to time.



*Bernadine Flynn lends the witchery and eternal mystery of her sex to Thurston the Magician's program over the Blue net each Thursday and Friday at 8:45 p. m. EST. Miss Flynn is also "Sade" of Vic and Sade, 10:15 p. m. on the blue, Monday to Friday inclusive.*

L. F. Naylor, Jr., has a letter from Sr. Cespedes in which he writes, "concerning the great little NRH, I must say that we have enlarged its power. We have 200 watts nominally, and it will surely cut the ice much better, so please find it and report it good, but let me know what I say and what there is strange to report from NRH and then I shall send you our four color certificate as no other station has." Those who hear NRH should write to Sr. Cespedes at Apartado 40, Heredia, Costa Rica and receive one of his diplomas, which are 10 x 14 inches in size and suitable for framing. Others writing about TI-4-NRH are Henry King, 743 Simpson St., Atlanta, Ga. Joe L. Burkholder, Box 434, Forest City, N. C.; C. F. Glick, Box 84, Tell City, Ind., and W. T. R. Morris, Jr.

### The British Stations

When the programs of the British Empire Broadcasting Station were inaugurated it was understood that, during the first months of operation, they would necessarily be of an experimental nature as regards wavelengths and time on the air. As is already known, this station transmits on two wavelengths simultaneously, but from time to time it is found necessary to change these wavelengths and times, these changes dependent upon the propagation phenomena of the season and reception reports received from listeners. Therefore it is difficult to keep the schedules in our lists precisely accurate at all times. As given this month they are correct as of the time of going to press, but, as the BBC advises, "Always listen for announcements because wavelengths, programs and times are liable to change," with only one or two days' notice in advance being given. These announcements are always given at the termination of the Saturday night broadcast.

It might be mentioned that when GSA is used, either GSB or GSC can be used with it, or, the station duplicating the transmissions of GSD may

be either GSB, GSC, GSE or GSF. These call signs, by the way, merely refer to the frequency used and do not signify separate transmitters; there are actually only two transmitters.

We are indebted to the British Broadcasting Co., Henry King; Richard W. Mitchell, 542 Ste. Angèle St., Three Rivers, Que.; Geo. F. Sullivan, 100 Crescent Ave., Chelsea, Mass.; Allen Knain, Northwood, N. D., and R. W. Evans, for information regarding the Daventry station.

### Time of RV-59

Mme. Inna Marr of the Trades Union Radio Station, Palace of Labor, Solianka 12, Moscow, U. S. S. R., kindly advises us of their schedule of broadcasts. Their station, RV59, is on the air daily from 3 until 6 p. m., EST., announcing in nearly every European language, on the following days: Monday, German and English; Tuesday, Dutch, French and Hungarian; Wednesday, Czechoslovakian and English; Thursday, German, French and Spanish; Friday, German and English; Saturday, German, French and Spanish, and Sunday, German, English and Swedish. This station broadcasts the chimes from the Kremlin at 4 p. m., EST and has been heard recently by R-DEX readers.

Reports of reception of RV59 have been received from Philip Robinson, Shelburne, N. S., W. T. R. Morris, and P. J. Soper, 256 Burroughs Terrace, Union, N. J. Mr. Soper writes, "Moscow, RV59, gives a fairly good signal in the afternoons near 4 o'clock. I picked them up at 3:55 p. m., yesterday and heard the English announcement, 'Hello, this is Moscow calling.' At 4 o'clock there were chimes, but not very distinct, and they played Internationale immediately following the chimes."

With completion of its new RCA transmitter at Wayne, N. J., station W2XE, the Columbia Broadcasting System's short wave unit in New York has returned to the air. Where-

as the old transmitter operated on a wavelength of 49.02 meters, the new one will alternate between three different wavelengths each day. The waves used at 19.646 meters, 25.36 meters and 49.02 meters. This alternation of wavelengths has been arranged to give optimum results in transmission.

### The Primary Class

For the benefit of those readers who are just commencing to tune the short waves we present again a list of the ten best stations of the month. This list does not include all the stations it is possible to hear, but only the ten broadcast stations which have been reported to us the greater number of times by our readers. It is possible to hear these stations at good speaker volume anywhere in the country and beginners should confine their efforts to this small group:

5.925, 50.60, HJ4ABE—Medellin, Colombia.

6.050, 49.56, GSA — Daventry, England.

6.119, 49.00, YV1BC—Caracas, Venezuela.

6.618, 45.31, PRADO—Riobamba, Ecuador.

9.503, 31.55, VK3ME—Melbourne, Australia.

9.510, 31.53, GSB—Daventry, England.

9.862, 30.40, EAQ—Madrid, Spain.

11.711, 25.60—Pontoise, France.

11.753, 25.51, DJD—Zeesen, Germany.

11.800, 25.40, I2RO, Rome, Italy.

### More "Info" from Sargent

As the result of an article by Clarence Sargent, 18 Clinton St., Dansville, N. Y., which appeared in RADEX, he has received numerous letters from readers asking for additional information. In answer to some of these questions, he writes, "I have increased my log considerably which now totals 1924 stations tuned in from 15 to 550 meters. Best DX is as follows: CMCI, X26A, XEW, G5SW, G2NM, FTN, PCJ,

HVJ, IAC, ICGZ, PLE, LSG, LSY, LSR, HRB, PPU, PRBA, HKA, VK3ME, 2ME, VK3UZ, TI-4-NRH, HCJB, HC2JSB, OXY, DGB, OCJ, CT1AA, J1AA, SUZ and TGX. Receivers used are National AC45, National FB7 and a Lincoln. DX fans writing to foreign stations complain they do not get replies, in most cases they send U. S. A. stamps (which are no good to foreign stations) or they send nothing at all. If an International Reply Coupon is enclosed nine times out of ten they will receive a reply." The total of 1924 stations includes, of course, many amateurs. We have not named all the stations he mentions but only the best catches. Other questions he answers, such as identifying foreign stations, best time to tune, etc., have been acknowledged in RADEX.

### Checks Them Twice

"I do not call a station received unless it has been checked up on two different days," writes F. L. Naylor, Jr., 176 Argyle Place, Arlington, N. J. "This is just a little code of ethics I have for myself. On the s. w. I have picked up these stations in England: GSE, GSD, GSC, GSA, GSB. I2RO comes in with volume equal to some local stations. EAQ has to be turned down. I have received my verification from CT1AA. Of course the Pontoise station comes in all over the dial on their different channels with no trouble. If anyone has a Stewart-Warner set with a built-in s. w. attachment I would like to hear from them and learn what they are getting on it."

"I wonder how many SW fans receive HBL Geneva, on 31 meters," asks W. T. R. Morris, Jr., 3219 Garland Ave., Richmond, Va. "It comes in here like a local. One of the other very loud stations is TI-4-NRH, and he sure comes pounding in here about 5 p. m. Some fans may have trouble identifying NRH. It sounds like 'Tay-ee-quatrow-ennay-erray-ochay.' I guess RADEX will have heard that VE9GW is back on the air and strong-

er than ever. By the way, I wonder how many fans got RV59 Moscow on the CBS hook-up. Well, CBS was my cue to try for him and sure enough there he was but pretty weak."

Harry W. Dugdale, 3103 Jackson St., San Francisco, Calif., uses a Philco Super Converter with a 9-tube Gilfillen super, and would like to hear from other users of these sets. Mr. Dugdale has heard 13 countries on S. W. and mentions that KA1XR, Manila, P. I., is back on the air. He is quite a successful broadcast band tuner, too, having heard nine stations in Japan.

### Who is VUNK?

"The old faithfuls, I2RO, Pontoise and EAQ come roaring in," advises Richard M. Carter, 1315 Washtenaw Ave., Ann Arbor, Mich. "Following are a few of my new stations: GSA, GSD, RXC, PSH, ICEJ, DIQ, and DJD. Most of these come in with unusual volume, especially GSA at night. Here's one that has me wondering. I picked up a station that gave its call a great many times as VUNK, announced that it was on 40 meters or thereabouts and in a few minutes the operator played 'Play Fiddle Play' on a kazoo. It was coming in very, very loud." We wonder who VUNK might be. Can anyone identify this station?

### More Queries

Two other stations on which no information is available have been received by readers. Geo. W. Burns, 2466 Wahl Terrace, Cincinnati, Ohio, asks which ship has the call sign VPSH, while K. P. Williamson, 1610 Sherbrooke St., W., Montreal, P. Q., heard a station on 2650 kc/s. near 7 p. m., giving marine weather reports and mentioning conditions off the Grand Banks.

Arthur C. Gluck, 295 Clinton Ave., Brooklyn, N. Y., writes, "For the fans who can listen on Sundays during the afternoon at about 1:30, EST.

here is a tip. Whenever the National or the Columbia chains have scheduled a German re-broadcast, and there generally is one every Sunday at 2:00 p. m., tune in to DJD, 25.51 meters, or DIQ, 29.26 meters, or DJG, 29.6 meters. These are all powerful stations and can easily be tuned in on a good short wave set. Other Europeans that are easily picked up during the day are Pontoise, I2RO and London."

R. W. Evans, 832 Richie Ave., Lima, Ohio, has heard VK2ME and 3ME, DJD, 2RO, RXC, EAQ, YV1BC, Daventry, Pontoise, and many others on his Silver-Marshall 727SW receiver. He would like to hear from other owners of this set.

"I have a Majestic Model 204 called the Explorer on which I have picked up the following stations," writes Joe L. Burkholder, Box 434, Forest City, N. C., "Pontoise, 5SW, EAQ, Rome, LSX, Daventry, TI-4-NRH, YV1BC, HBP, DJD, CT1AA, HVJ, and VK3ME."

### Finally Gets Foreigner

Last month we mentioned that Henry I. King, Jr., 743 Simpson St., N. W., Atlanta, Ga., had tuned on the short waves for nearly a year without having heard any foreign stations. At this time we are pleased to quote from several letters received from him since that time. "My big surprise came this A. M. at 6 to 6:45 on 9.5 megs. I got VK2ME, Sydney. The station came through very well in spite of severe man-made static. After a seven-day trial I finally pulled in my hardest catch, TI-4-NRH. Since 4:30 p. m., today it has been coming in like W1XAZ. I picked up GSA, 'A as in aerial,' and GSB, 'B as in broadcast,' and GSE, 'E as in Empire.' I also picked up a station on 11.8 megs. with a woman announcing 'Radio Roma-Napoli,' which came in good until W8XK came in drowning her out." Other stations he has heard are YV1BC, XAM, XDA and DJD.

*(Continued on page 80)*



# BUILDING UP *the* LOGS

## • • • *Some DX Records*

So many readers ask us to mention that they would like to hear from other Radexers, it is impossible to repeat the request over and over. We are therefore trying the experiment of indicating with an asterisk the names of those who want to hear from others, particularly those having the same kind of set. We have had complaints in the past that some of those who had requested correspondence did not answer it. Even though those requesting letters may be flooded, nevertheless they are in duty bound to reply to the correspondence they have invited. Unless this is done, we will be unable to make such requests in future.

"I use a Scott DeLuxe," advises \*John Clarke, 387-14th St., Buffalo, N. Y. "I have had two Scott receivers and I think they are the berries. I have 430 stations since July including all states, except Delaware. I have 33 stations in California with 20 verified and five verifications expected. I have 40 stations in Canada, including all provinces; also 14 stations in Mexico, 11 in Cuba. I have verifications from WKAG and YV1BC. I have brought in 41 of the 96 channels in broad daylight. On the short waves I play France, Germany, Italy, Australia, with volume enough to be heard in any part of the house during summer months. I also get very good reception from Spain, Venezuela and other South American stations."

### A Four-Tube Record

"I have logged 115 stations on 79 different frequencies in two and a half months, from November 7, 1932, to January 23, 1933," reports E. H. Swift, Eureka, Ill. "On the summary enclosed I have listed the stations according to the number in each state. Thirty-two states and Canada and Mexico are listed. You will note that

the most stations I have logged have been Illinois stations, but the second ranking state is California, with slightly more than half the number of Illinois stations. These ten stations from California are, among others, KFSD, KMPC, KTM and KFWI, all 500-watters according to the January RADEX. I do not have a big radio as may be suspected. My set was built by Western Radio Manufacturing Co., Chicago, named Westrad. It is a standard 4-tube set using a 47, 57, 58 and 80. I have experimented with aerials and grounds and find that the set works best when the aerial post of the set is grounded to either a pipe in the ground or a water pipe. That is the only connection excepting the 110 a. c."

### The First Electric

"I have a Rogers 6-tube table model of the year 1932 (the makers of the first electric set in the world, a purely Canadian radio organization and the only one) so therefore we Canadians are sure proud that, like the telephone, a Canadian citizen, E. Rogers, was the first in radio (electrically)," proclaims Alex Williamson, 121 Campbell Ave., Hamilton, Ont.

"I have had a lot of good fortune in DXing this winter and I am proud to say I have logged 591 stations. I wonder if any of your readers could inform me when NAA, RUS, TGW, and TIGR are on the air."

"I have been a DXer for eight years," says Harry A. Dugdale, 3103 Jackson St., San Francisco, Calif. "I have to date 437 long wave stations—seven countries, 48 states with nine stations in Japan alone. It is surprising how clearly and with what volume the latter come in. Australia also is received regularly along with KZRM, XER, HHK, CMCJ. I am using a Philco Super Converter

on a nine-tube Super Gilfillen. I would like to join some of the DX clubs and would like to have them write me about it."

"My machine is a five-tube, electric table model, made by the Northern Electric Company," remarks G. Campbell, 555 Newport Ave., Oak Bay, Victoria, B. C. "The reception of all stations has been on the loudspeaker. I have received KGBU, KGU, KGMB, and the following Japs: JOAK, on two frequencies, JOIK, JOFK, JOCK, JOBK, JOHK, JOJK, JFAK, JOGK, also XGOA. While from down under I have the following: 1YA, 2YA, 2CO, 3AR, 5CK, 4QG, 3LO, 2BL, 4RK, 2UE, 4BC, 2FC, 2GB, 7ZL, and two unidentified ones which I think are 2UW and 3HA."

#### It's in the Blood

"I've done no DX work for years, as hammering a key professionally was enough radio for me," admits A. C. Spear, 1825 Hamlin St. N. E., Washington, D. C. "I have no key to pound on now so, like all of my ilk, it was in the blood and soon came out. Have an old model 87L Philco that the 'Mrs.' uses for her entertainment, and thought I'd fix it up. Had to string an antenna up and line up the condenser gang, get some new tubes, but I've been well repaid for my work. So far I've logged 188 stations in 38 states and that's only the beginning."

"The fall and winter surely have been fine for DXing," remarks Stanley H. Bond, Keyser, W. Va. "I have been able to log 63 new stations since October 1st; also completing my log of states with the addition of Wyoming and Vermont. My list now stands at 571 stations in North America, all verified. No trans-Atlantic or trans-Pacific stations appear on my list, as I have not been fortunate enough to pull them in. I use a model 70 Atwater Kent receiver."

#### Makes a Test

"Just for the sake of finding out what my receiver (a Philco 8-tube

Model 87, which is now over three years old) would do under adverse radio conditions," writes C. H. Osborn, 17 No. Fifth St., Fulton, N. Y., "I started keeping a log of stations received, six weeks ago. To make the test more difficult, I listened for stations only from 6:00 to 9:00 P. M. each evening. In this location there is considerable power-line interference, and other equally aggravating noise and interference between those hours. I am enclosing a list of stations received and identified, during the six weeks' period. There is no unusual distance, but I had many of these stations at will, any night I desired to bring them in. KFI comes in with fair volume at 10:00 P. M., EST. This is a total of 121 stations brought in with good volume on the loudspeaker in a six weeks' test. I give full credit to RADEX. It's a great little pal."

"I have been DXing for four months and have 125 stations, with verifications," says \*Don Harkness, 64 Queen St., St. Catharines, Ont. "On Sunday morning, January 8th, I was lucky enough to pick up JOIK, Sapporo, Japan, between 4:00 and 5:00 A. M., EST. Some of my best catches are JOIK, Sapporo, Japan, a 10,000-watter; CMJK, Camaguey, Cuba, a 300-watter; CM CJ, Havana, 250 watts; HJN, Bogota, Colombia, 3500 watts; WKAQ, San Juan, Porto Rico, 1000 watts. I have a Stewart-Warner 7-tube A. C."

#### Arizona Gets Alaska

"I have been a DX hound for six years," admits \*Claude Manship, Kingman, Ariz. "I never stay up any later than 10:30 P. M., and I feel that I have achieved a great amount of distance during this time. My best catch is VAS at Glace Bay, N. S. I have also received KGBU, Ketchikan, Alaska, and WKA W, at Porto Rico. My set is an Atwater Kent 55, with an antenna 122 feet long, 36 feet high. I have my set grounded on a steam radiator in the house with no outside ground, and it has proved to

be the best ground that I have experimented with."

"I have a four-tube battery set (made by my son-in-law)," says Henry P. Burt, 355 Union St., New Bedford, Mass. "I do not know the kind, but I have logged 227 stations, including Mexico, Cuba and Canada. My prize one, however, is KZRM, Manila, P. I., but I have only been able to get it once. I wish the Mexican stations would announce in English, as well as Spanish, as it is very hard to place them and I would not have been able to get as many as I have without the aid of RADEX. I have 16 in Mexico, 14 in Cuba, and 31 in Canada."

#### Good List from Nova Scotia

"RADEX was responsible for my verification of YV1BC, Caracas, Venezuela," says P. H. Robinson, Box 8, Shelburne, N. S. "Some of my best catches are HJN, Bogota; WKAQ, San Juan; XES, Tampico; and KTM, KNX, KFI, KPOW, KGO, KFOX, KFVD (250 watts), KHJ, KFSD, all in California. I also am interested in short waves having logged GSA, GSB, etc., I2RO, FYA, VE9JR, VE9DR, Moscow on about 45.35 meters, and quite a number in the U. S. Most of these are verified."

"This winter so far has proved a fairly good DX season," says Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo., "and I am well on my way to my three hundredth station. I have now received 285 stations and average about five new ones each night I sit up, which isn't very often. I haven't been able to get across the ocean yet, but considering the fact that I do not use an aerial I don't think this is so bad."

"At present I have a log of 210 stations with 43 verified and about 20 or 25 letters out for verifications," advises \*John J. Barlow, 2803 Woolsey St., Berkeley, Calif. "My set is a Philco 90 and I have had it just a little over a year. Included in my log are three Australian stations, one New Zealand, 11 Japanese, one Alas-

kan, 11 Canadian, 8 Mexican, one Cuban, and one Porto Rican. All the rest are from 37 states in the U. S. I consider my best catches 10-AT, JOSK, JODK, WBIG, WKAQ, CMK and XETA. My best verifications to date include 2CO, 2YA, KGNO and WRUF."

"To date I have received 411 stations (no two alike)," reports Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa. "I have a 9-tube Silvertone. I did have a 6-tube Silvertone and with it I received 375 stations, and since getting the 9-tube set I have increased this number to 411. I keep a separate log for my 9-tube set, which I bought in September, 1932. From then until now I have received 196 stations. I think this is pretty good, as I only stay up, to do my DXing, from 1:45 to 5:00 A. M. each Sunday morning. If I receive a station on the 9-tube that I did not receive on the 6-tube set I add it to my main log."

"I have a Northern Electric converter, and it sure is one snappy job for pulling in European stations," reports Dudley Clarke, 1962 Tupper St., Montreal, Que. "My shortwave log (including 'hams') from February 2nd to March 8th is 256. Among my best stations are: EAQ, IZRO, GSA, GSC, Radio Colonial at Pontoise; YVQ, HBP, GSB, GBB, DJC, DJD, YV1BC, HJB, LSN and HC1FG, a 'ham' in Ecuador. Have heard WOO working ships but have no ships in my log as yet."

#### On a Home-Made Set

"I have a homemade two-tube set on which I have received 380 stations," comments Dick Stubbs, Okanagan Mission, Kelowna, B. C. "The best are WGLC and WGNV, 50-watters in New York State. Also I have YV1BC, WNBX, WCAZ, WDZ, WAZL, WHOM, WEXL, WTAR and CKPC. From across the Pacific I have 3LO, 4QG, 2YA, 2BL and have had as many as 17 Japs in one night. 4QG comes in nearly every night

*(Continued on page 72)*

# TUNING *a* RADIO *in* BRITAIN

• • • *By* PERCY DODSON\*

**F**OR the full enjoyment of European broadcasting a very selective receiver is essential. The separation between stations is only nine kc/s. The writer finds the Super-heterodyne type the most successful. Over 150 stations have been identified. These results have been obtained in Lincolnshire, which county is admirably located for European listening.

Conditions are ideal at present for long distance reception. In fact, they are better now than they have been for several years. Many of the usually weak stations are coming in at fine volume.

## The Daylight Stations

In daylight sixteen stations are available at excellent strength. They are, in order of merit, long-waves (150 to 300 kc/s) Daventry National, Kalundborg, Radio-Paris, Eiffel Tower, Huizen, Warsaw and Königs Wusterhausen; medium waves (550 to 1,500 kc/s) London Regional, North Regional, North National, Brussels No. 1, Breslau & Heilsberg. Other good stations, but at less intensity are Brussels No. 2, Langenberg, Poste Parisien, Hamburg and Scottish Regional. The latter two are about equal in volume. The new I. F. S. station at Athlone using 80 kw. is good at all hours.

After sunset the above list is considerably augmented. On the higher waveband, foreign reception is excellent. Warsaw heads the list, both for quality and strength. Kalundborg is a good second. When not troubled by heterodynes from Russian transmitters, Oslo is excellent. Leningrad is a fine signal. Moscow's stations, Old Komintern and Trades Union are both good. Motala has been poor for some time, but is improving. Kaunas is weak.

On the medium waveband, the German stations practically rule the waves. Breslau deserves special mention, for it comes over at tremendous strength. Heilsberg, Mühlacker, Hamburg, Frankfurt, Langenberg, Leipzig and Gleiwitz come through like "locals." Italy is a close rival with Trieste, Florence, Milan and Turin. Rome is not so good. It seems to have fallen off a little. The best French representatives are Poste Parisien, Strasbourg, Fécamp and Toulouse. Fécamp, owing to its rather low wave, suffers badly from fading. Of the Swedish stations, Stockholm, Hörby and Göteborg are the best. The Czechs, Prague, Brno and Moravska-Ostrava are well received. Sottens and Beromünster are very reliable. Barcelona EAJ.1 is the best in the Spanish group. Good reception has been obtained from Ljubljana, Budapest, Vienna, Katowice, Bucharest, Lwow, Algiers and Graz.

Fécamp and Toulouse give sponsored programs nightly for the benefit of British listeners. Radio-Paris does likewise on Sundays. Another station soon to be added to these is Luxembourg. It will be the most powerful transmitter in the world. It is, at present, testing, and is received at great volume. The aerial power is 200 kw.

## Power is Increasing

More and more power seems to be the motto of European broadcasters. Every available channel will soon be occupied by a station with a power rating of from 25 to 120 kw.

The American medium-wave stations have been prominent this year. Some two dozen have definitely been identified. The most consistent are WHAM, WTIC, WENR, WPG, WCAU and WIOD. The latter is

*(Continued on page 72)*

# WHAT'S ON THE AIR TONIGHT?

Fill in calls and dial numbers for those stations through which you best receive the three chains. You can then turn quickly to the one that has the feature you want.

COLUMBIA (C).....WABC NATIONAL, Red (R).....WEAF NATIONAL, Blue (B).....WJZ

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

**TIME:** ED Eastern Daylight; E Eastern; C Central; M Mountain.  
For Pacific Time subtract one hour from Mountain.

**RADEX** is the only publication listing stations in alphabetical order for your convenience.

While these programs are correct at the time of going to press changes are made from time to time. Due to change to Daylight Saving Time on April 30th, some of the stations listed will be unable to carry particular features.

## MONDAY

**ED-5:45 p.m., E-4:45, C-3:45, M-2:45**  
**R — Little Orphan Annie**  
 CKGW KDKA WBAL WBZA WCKY  
 WGAR WHAM WIS WJAX WJR  
 WJZ WRVA WUNC

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**R — Waldorf-Astoria Orchestra**  
 CKGW KFYR KGO KOA KPRC  
 KSD KTBS WBBN WCAE WCKY  
 WCHS WDAF WEAF WENR WFBR  
 WFI WHO WIBA WIOD WJAR  
 WKY WMC WOAI WOC WRC WSB  
 WSMB WTAG WUNC  
**C — Reis and Dunn**  
 CFRB CKOK KFAB KFH KLZ  
 KMBC KSCJ KSL KTRH KVOR  
 WAAB WADC WBCM WBIG WBRC  
 WBT WCAO WDAE WDBO WDOD  
 WDSU WEAN WFAN WGR WHCC  
 WIP WISN WJAS WJSV WKBH  
 WLBW WLBZ WNAX WOKO WORC  
 WQAM WSBT WSPA WSJS WSPD  
 WTAQ WTRR WTOC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**C — Jack Dempsey's Gymnasium**  
 CFRB WABC WCAO WHK WCAU  
 WKBW WKRC  
**R — Richard Himber's Ensemble**  
 KFYR KGO KGW KHQ KOA KOMO  
 KPRC KSD KTBS KTHS KVOO  
 WDAF WEAF WFBR WIBA WIS  
 WMAQ WMC WOAI WSB WSMB  
**B — Three X Sisters**  
 KSO KWCR KWK WBAL WJZ  
 WREN WSYR

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**R — Countess Olga Albani**  
 KFSD KGO KGW KOMO WBBN  
 WCAE WEAF WFBR WHO WIS  
 WJAR WJAX WMAQ WMC WOC  
 WOV WRC WSAI WSB WSM WTAG  
 WUNC  
**C — Just Plain Bill**  
 CKOK WABC WCAO WCAU  
 WHK WJSV WKBW  
**B — Lowell Thomas**  
 CKGW KDKA WBAL WBZ WBZA  
 WGAR WHAM WJR WJZ WLW  
**B — Little Orphan Annie**  
 KFYR KOIL KPRC KSO KSTP  
 KTBS KWCR KWK WBP WDAY  
 WBCB WENR WKY WOAI WREN  
**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**R — Walberg Brown Concert**  
 KSTP WCHS WEAF WFBR WIBA  
 WRC WSAI WTAM  
**C — Myrt and Marge**  
 CKOK KRLD WABC WADC WCAO

WCAU WDRC WEAN WFBL WGR  
 WHK WJAS WJSV WKRC WNAC  
 WOKO WSBT WSPD WVVA  
**B — Amos 'n' Andy**  
 CKGW KDKA WBAL WBZ WBZA  
 WCKY WFLA WGAR WHAM WIOD  
 WJAX WJR WJZ WLW WPTF WRC  
 WRVA WUNC

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**B — Octavus Roy Cohen Mystery**  
 KDKA KOIL KSO KWCR KWK  
 KYW WBAL WBZ WBZA WCKY  
 WENR WJR WJZ WLS WLW WREN  
**C — Buck Rogers—Year 2433**  
 CKOK KMOX WABC WBBM WCAU  
 WCCO WGR WIAS WHK

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**B — Five Star Theatre**  
 KDKA KTBS WBAL WBZ WBZA  
 WHAM WIS WJZ WMAL WMC  
 WPTF WRVA WSAZ WSMB WUNC  
**C — Dolph Martin's Orchestra**  
 WABC WCAO WCAU WDRC WEAN  
 WFBL WFEA WGR WHCC WHP  
 WJAS WJSV WLBZ WNAC WOKO  
 WORC

**R — Elvia Allman**  
 WCKY WCHS WDAF WEAF WEEI  
 WENR WFBR WGY WJAR WSAI  
 WTAG

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**R — The Goldbergs**  
 KFYR KPRC WBBN WCAE WCHS  
 WDAF WEAF WEEI WENR WFAA  
 WFBR WGY WJAR WKY WLIT  
 WOAI WOW WRC WSAI WTAG  
 WTAM WTMJ WWJ

**C — Boake Carter, News Flashes**  
 CKOK KMBC KMOX WABC WBBM  
 WBT WCAO WCAU WCCO WGR  
 WHAS WHK WJSV WNAC

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**C — Singin' Sam**  
 CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRC WEAN WFBL  
 WFSM WGN WGR WHK WJAS  
 WJSV WKRC WNAC WOKO WSPD  
**R — Socynoland Sketches**  
 WBBN WCHS WEAF WEEI WGY  
 WJAR WTAG WTIC  
**B — Cliquot Club Eskimos**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WCKY WGAR  
 WHAM WJZ WLS WREN

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Manhattan Serenaders**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KRLD KSCJ KSL KTSA  
 KVOR WABC WADC WBIG WCAH

WCAU WDAE WDBJ WDBO WDOD  
 WDRC WDSU WEAN WFBL WFBM  
 WFEA WGR WGST WHK WHP  
 WIBW WISN WJAS WLAC WLBW  
 WLBZ WNAC WNAX WNOX WOKO  
 WORC WQAM WREC WSPA WSJS  
 WSPD WTAQ WTOC

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**R — Famous Brands—Ranny Weeks**  
 CFRB CKOK KMBC KMOX KRLD  
 WABC WADC WBT WCAO WCAU  
 WDRC WEAN WFBM WGN WGR  
 WHAS WHK WJAS WJSV WKRC  
 WNAC WOKO WOWO WSPD

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**  
**R — Famous Brands—Ranny Weeks**  
 WBBN WCAE WCHS WDAF WEAF  
 WEEI WGY WJAR WLIT WLW  
 WMAQ WRC WTAG WTAM WTIC  
 WWJ  
**B — Phil Cook-Andy Sanella**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WCKY WGAR  
 WJAX WJR WJZ WLS WMAL WREN  
 WSYR

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**  
**C — Grand Opera Miniatures**  
 CFRB CKOK KFH KLRA KLZ  
 KMBC KRLD KSCJ KSL KTSA  
 KVOR WABC WADC WBIG WCAU  
 WCCO WDAE WDBJ WDBO WDOD  
 WDRC WDSU WEAN WFBL WFBM  
 WGST WHCC WHK WHP WIBW  
 WICC WISN WJAS WJSV WKBW  
 WLAC WLBW WLBZ WMBD WNAC  
 WNAX WNOX WOKO WORC WPG  
 WQAM WREC WSJS WSPD WTOC  
**R — A. & P. Gypsies**  
 KSD WBBN WCAE WCHS WDAF  
 WEAF WEEI WGY WHO WJAR  
 WLIT WMAQ WOC WOW WRC  
 WSAI WTAG WTAM WTIC WWJ

**B — Sinclair Minstrels**  
 KDKA KFYR KOIL KPRC KSO  
 KSTP KTBS KTHS KVOO KWCR  
 KWK WAPI WBAL WBZ WBZA  
 WDAY WBCB WFAA WFLA WGAR  
 WHAM WIBA WIOD WIS WJAX  
 WJDX WJR WJZ WKY WLW WMC  
 WOAI WREN WRNA WSB WSM  
 WSMB WTMJ WUNC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**C — Evening in Paris**  
 CKOK KLZ KMBC KMOX KOMA  
 KSL WABC WCAO WCAU WCCO  
 WDSU WEAN WGN WGST WHK  
 WJAS WJSV WNAC  
**B — Jack Frost's Melody Moments**  
 KDKA WBAL WENR WGAR WHAM  
 WJR WJZ WLW

# MONDAY—(Continued)

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Golden Country Club**  
WAAB WABC WCAO WCAU WDRC  
WFBL WHEC WHP WICC WJAS  
WJSV WKWB WLWB WOKO WPG  
**R — Contented Program**  
CPFC CKGW KFYR KPRC KSD  
KSTP WBNB WCAE WDAF WFAF  
WBEBC WENR WFAA WFLA WGY  
WHO WIOD WJAX WKY WMC  
WOAI WOC WRVA WSAI WSB  
WSM WTAM WTMJ WWJ

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**C — Edwin C. Hill**

CFRB CKOK KLRA KLZ KMBC  
KMOX KSCJ KTRH KTSB KVOR  
WAAB WABC WADC WBCM WBIG  
WBRC WBT WCAH WCAO WCCO  
WDAE WDBJ WDOD WDRC WDSU  
WFAN WFBL WFBM WFEA WGST  
WHAS WHFC WHP WIP WISN  
WJAS WJSV WKWB WKBN WKWB  
WLWB WLWB WMBD WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSJS WSPD WTOC

## R — National Radio Forum

KPCA KGA KFO KSD KTAR KTBS  
WBEN WCHS WDAF WFAF WVEI  
WENR WFBM WFLA WIBA WIOD  
WIS WJAR WJDX WKY WQAI  
WRC WRVA WSAI WTAG WTAM  
WWJ WWNC

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — William O'Neal Tenor**

CFRB CKOK WAAB WABC WADC  
WCAU WDRC WEAN WFBL WFEA  
WHEC WHK WICC WJAS WJSV  
WKBN WKWB WLWB WLWB WOKO  
WOKC WPG WSPD  
**C — Myrt and Marge**  
KDB KERN KFBK KFPY KFRC  
KGB KHJ KLZ KMBC KMJ KMOX  
KOLN KOL KSL KVI KWG WBBM  
WCCO WDSU WFBM WHAS WLAC

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — Southern Singers**

WBAL WFLA WHAM WIOD WIS  
WJZ WWNC  
**C — Howard Barlow's Symphony**  
CFRB CKOK KFAB KFH KLZ  
KMBC KSCJ KSL KTRH KVOR  
WAAB WABC WADC WBCM WBRC  
WBT WCAO WDOD WDRC WDSU  
WEAN WFAN WFBM WHK WIBW  
WICC WIP WISN WJAS WJSD  
WKBN WKWB WLWB WLWB WMBD  
WNAX WODX WOKO WORC WQAM  
WSBT WSJS WSPD WTAR WTOC

## B — Amos 'n' Andy

KDYL KFI KFSD KGO KGW KHQ  
KOA KOIL KOMO KPRC KSTP  
KTHS KWK WBAP WDAF WENR  
WJDX WKY WMAQ WMC WOAI  
WREN WSB WSM WTMJ

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**B — Octavus Roy Cohen Mystery**

KDYL KFI KFYR KGA KGO KGW  
KOA KOIL KOMO KPRC KSO  
KSTP KTHS KWCR KWK KYW  
WBAP WDAY WEBC WIBA WJDX  
WMC WOAI WREN WSB WSMB

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Ted Lewis and Orchestra**

CFRB CKOK KFAB KFH KLRA KLZ  
KMBC KMOX KSCJ KSL KTRH  
KVOR WAAB WABC WACO WADC  
WCAH WCAO WCAU WCCO WDAE  
WDBJ WDOD WDRC WDSU

WEAN WFBL WFBM WGST WHEC  
WHP WLWB WICC WJSV WKBN  
WKWB WLAC WLWB WLWB WMBD  
WMT WNAX WNOX WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSPD WTOC

## B — Phantom Gypsy

CFPC KFYR KPRC KSO KSTP  
KTHS KTHS KWCR KWK WBAL  
WBAP WCKY WDAY WEBC WENR  
WGAR WHAM WIBA WJZ WKY  
WMAL WMC WOAI WREN WSB  
WSMB WSYR

## R — Jack Denny and Orchestra

WEAF WFBR WJAR WRC WTAG  
WVIC

**ED-12:00 p.m. E-11:00, C-10:00, M-9:00**

## C — Leon Belasco and Orchestra

CKOK KFAB KLRA KLZ KMBC  
KRLD KSCJ KTRH KVOR WABC  
WACO WCAH WCAO WCAU WCCO  
WDOD WDSU WEAN WFBL WGST  
WHP WLWB WICC WISN WJAS  
WJSV WKWB WLAC WLWB WMBD  
WMT WNAC WNAX WNOX WOKO  
WREC WSBT WSPD WTOC

# TUESDAY

**ED-5:45 p.m., E-4:45, C-3:45, M-2:45**  
**B — Orphan Annie, See Monday**

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**

**C — Reis and Dunn, See Monday**  
**R — Waldorf-Astoria, See Monday**

**ED-6:15 p.m., E-5:15, C-4:15, M-3:15**

## C — Betty Barthell

CFRB CKOK WAAB WABC WACO  
WADC WBBM WBIG WCAO WDAE  
WDBJ WDOD WDOD WDRC WDSU  
WFEA WGST WHEC WHP WJAX  
WJSV WLAC WLWB WLWB WNOX  
WOKO WORC WQAM WREC WSPA  
WSJS WSPD WTOC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**

## C — Jack Dempsey, See Monday

## R — Mid-Week Hymn Sing

KFYR KGO KOA KOMO KTBS  
KTHS KVOO WBNB WDAF WEAF  
WFBM WFI WIS WMAQ WMC  
WOAI WPTB WSB WSMB WTAG  
WWNC

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**

## R — James Melton, Tenor

KOA WEAF WFBM WFI WHO WIS  
WJAR WMAQ WOC WOW WRC  
WSAI WSM WTAG  
**B — Lowell Thomas, See Monday**  
**B — Orphan Annie, See Monday**  
**C — Just Plain Bill, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**

## R — Walberg Brown, See Monday

## C — Myrt and Marge, See Monday

## B — Amos 'n' Andy, See Monday

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**

## C — Buck Rogers, See Monday

## B — Radio in Education

KDKA KDYL KECA KEX KFSD  
KFYR KGA KGIR KJR KOA KOIL  
KPO KTBS KVOO KWCR WBZ  
WBZA WENR WFLA WIBA WIS  
WJDX WJZ WMC WOAI WPTF  
WREN WSB WSM WSMB WWNC

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**

## C — Keller, Sargent and Ross

CKOK KMBC KMOX WABC WCAO

WCAU WDRC WGN WGR WHAS  
WHK WJAS WJSV WRC WNAC

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**

**C — Boake Carter, See Monday**  
**R — The Goldbergs, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**

## C — Musical Album

CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KSL KTRH KTSB  
KVOR WABC WADC WBIG WCAH  
WCAO WCAU WCCO WDAE WDJH  
WDOD WDOD WDRC WDSU WEAN  
WFBL WFBM WFEA WGR WGST  
WHAS WHEC WHK WHP WISN  
WJAS WJSV WLAC WLWB WLWB  
WMBG WNAC WNOX WOKO WPG  
WQAM WREC WSEA WJSJ WSPD  
WTAG WTAR WTOC WWVA

## R — Blackstone, Sanderson-Crumit

KSD KSTP KYW WBNB WCAE  
WCHS WDAF WEAF WEBC WEI  
WFI WGY WHO WJAR WOC WOW  
WRC WSAI WTAG WTAM WWJ

## B — Eno Crimie Club

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR WHAM  
WJZ WLW WMAQ WREN

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**  
**C — Magic Voice**

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WDRC WEAN WFBL  
WFBM WGN WGR WHAS WIK  
WJAS WJSV WKRC WNAC WOKO  
WSPD

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**

## C — Kate Smith

CKOK KMBC KMOX WABC WADC  
WBCM WCAH WCAO WCAU WCCO  
WPBL WFBM WGN WGR WHAS  
WHEC WHK WISN WJAS WJSV  
WKHB WKRC WOKO WOW WSPD

## R — Wayne King and Orchestra

KSD KSTP WBNB WCAE WCKY  
WCHS WEAF WEBC WEI WFBM  
WFI WGY WHO WIBA WJAR  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WTMJ WWJ

## B — Horlick-Health Talks

KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WGAR WHAM WJZ  
WLS WLW WREN

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**

## B — Southern Singers

KDKA KDYL KFSD KOA KOIL  
KPO KTRH KSO KTAR KTBS  
KVOO KWCR KWK WBAL WBAP  
WBZ WCKY WFLA WGAR WHAM  
WIS WJDX WJR WJZ WKY WLS  
WMAL WMC WOAI WREN WSB  
WSM WSMB WSYR WWNC  
**C — Abe Lyman and Orchestra**  
CKOK KMBC KMOX WABC WADC  
WCAO WCAU WDRC WEAN WFBL  
WFBM WGN WGR WHAS WHK  
WJAS WJSV WKRC WNAC WOKO  
WOW WSPD

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**

## C — Easy Aces

CKOK KMBC KMOX WABC WADC  
WCAO WCAU WCCO WDRC WEAN  
WFBL WFBM WGN WGR WHAS  
WHK WJAS WJSV WKRC WNAC  
WOKO WSPD

## R — Ben Bernie and Orchestra

KFYR KOA KPRC KSTP WBAP  
WBEN WCAE WCKY WCHS WDAF  
WDAY WEAF WEI WFBM WFI  
WGY WHO WJAR WKY WLS WMC

## TUESDAY—(Continued)

WOAI WOC WOV WRV WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WWJ

### B — Household Musical Memories

KDKA KSO KWK WBAL WBZ  
WBZA WHAM WJR WJZ WMAQ  
WREN

### ED-9:15 p.m., E-8:15, C-7:15, M-6:15

#### C — Threads of Happiness

CKOK KDB KERN KFBK KFH  
KFPY KFRK KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOMA  
KRLD KSL KTRH KTSB KVI KWG  
WABC WADC WBRU WBT WCAO  
WCAU WCCO WDAE WDBO WDDO  
WDRU WDSU WEAN WFBL WFBM  
WGN WGST WHAS WHFC WHK  
WJAS WJSV WKBW WKRC WLAC  
WNAO WOKO WOWO WQAM WREC  
WSPD WTAR WTOG

### ED-9:30 p.m., E-8:30, C-7:30, M-6:30

#### R — Ed Wynn-Don Voorhees

CFCF KDYL KFI KFSD KFYR  
KGHL KGR KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTAI  
KTBS KTBS KYOO WBAP WBEN  
WCAE WGSB WDAF WDAY WEAF  
WEBC WEEL WFBR WFI WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMAC WOAI WOC WOW WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WJZ WNNC

#### C — California Melodies

CFRB CKOK KFH KLZ KMBC  
KMOX KSCJ KSL KTRH KTSB  
WABC WBCM WBIG WBRU WBT  
WCAO WCAU WCCO WDAE WDDO  
WDRU WEAN WFBM WFEA WHEC  
WHK WIBW WJAS WKBH WKBN  
WLBW WLBZ WMBD WNAX WNOX  
WODX WOKO WQAM WSJS WTAR  
WTOG

#### B — Willard Robison and Orchestra

KDKA KSO KWK WBAL WBZ  
WBZA WCKY WENR WJR WJZ  
WREN WSYR

### ED-10:00 p.m., E-9:00, C-8:00, M-7:00

#### R — Walter Damrosch Symphony

KOA WBAP WBN WCAE WDAF  
WEAF WEBC WEEL WENR WJAX  
WRVA WTAM WWJ

#### C — Five Star Theatre

KLRA WABC WBIG WBT WCAO  
WCAU WDBJ WDDO WDRU WDSU  
WEAN WFBL WFEA WHP WICC  
WJAS WJSV WKBW WLAC WMBG  
WNAC WNOX WOBU WOKO WORC  
WREC WSJS WTAR

#### B — Sigmund Spaeth, Tune Detective

CFCF KDKA KOIL KSO KWCR  
KWK WBAL WCKY WGAR WHAM  
WJR WJZ WMAQ WREN WSYR

### ED-10:15 p.m., E-9:15, C-8:15, M-7:15

#### B — Vic and Sade

CFCF KDKA KOIL KSO KWCR  
KWK KYW WBAL WCKY WGAR  
WJR WJZ WREN WSYR

### ED-10:30 p.m., E-9:30, C-8:30, M-7:30

#### B — Mary Steele, Contralto

CKGW KDKA KSO KWCR WBAL  
WCKY WGAR WHAM WJR WJZ  
WMAQ WREN WSYR

#### C — Edwin C. Hill, See Monday

### ED-10:45 p.m., E-9:45, C-8:45, M-7:45

#### C — Charles Carlile, Tenor

CFRB CKOK KFAB WAAB WABC

WADC WBCM WDRC WFAN WFBL  
WFEA WHEC WHK WIP WJAS  
WJSV WKBN WKBW WLBZ WOKO  
WORC WPG WSBT WSPD

#### C — Myrt and Marge, See Monday

### ED-11:00 p.m., E-10:00, C-9:00, M-8:00

#### R — Southernaires Male Quartet

CKGW KSD WCAE WCKY WCSH  
WEAF WFBR WHO WOC WRC  
WSAI WWJ

#### B — Joe Green's Marimba Band

WBAL WHAM WIS WJAX WJZ  
WSYR WNNC

#### C — Howard Barlow, See Monday

#### B — Amos 'n' Andy, See Monday

### ED-11:15 p.m., E-10:15, C-9:15, M-8:15

#### B — Heart Songs, Women's Octet

CFCF CKGW KFYR KGR KPRC  
KSTP KTBS KWK WBAL WCKY  
WENR WFLA WGAR WHAM WIBA  
WIS WJR WJZ WMC WRC WREN  
WSM WSYR WNNC

### ED-11:30 p.m., E-10:30, C-9:30, M-8:30

#### C — Abe Lyman and Orchestra

CFRB CKOK KFAB KFH KLRA  
KLZ KMBC KSCJ KSL KTRH  
KVOB WAAB WABC WACO WADC  
WCAH WCAU WCAU WCCO WDAE  
WDBJ WDBO WDDO WDRU WDSU  
WEAN WFBL WFBM WGST WHK  
WHP WTBW WICC WISN WJSV  
WKBN WKBW WLAC WLW WLBZ  
WMBD WMT WNAX WNOX WOKO  
WORC WPG WQAM WREC WSBT  
WSJS WSPD WTOG WYVA

#### R — Talkie Picture Time, Drama

KPRC KSD KTBS KTHS WBNB  
WCAE WCSB WDAF WDAF WEEL  
WFAA WFBR WFI WHO WJAR  
WRC WMAQ WOAI WOC WOW  
WKY WSAI WTAG WTAM WWJ

#### B — Phantom Gypsy, See Monday

### ED-12:00 p.m., E-11:00, C-10:00, M-9:00

#### C — Joe Haymes and Orchestra

CKOK KFAB KLZ KMBC KSCJ KSL  
KTRH KVOB WAAB WBRU WBT  
WCAH WCAU WDAE WDDO WDSU  
WFLA WGST WHAS WHK WHP  
WISN WJAS WJSV WKBW WLBW  
WMBD WMT WNAX WNOX WOKO  
WPG WRC WSBT WSPD WTOG

### ED-12:30 a.m., E-11:30, C-10:30, M-9:30

#### R — Sam Robbins and Orchestra

WAPI WCAE WEAF WFBR WFI  
WFLA WIOD WJAR WMAQ WMC  
WRC WSB WSM WSMB WTAM  
WNNC

#### B — Ben Bernie and Orchestra

KFI KFSD KGO KHQ KOMO KSD  
KTAI

#### B — Mark Fisher and Orchestra

KOIL KPRC KSO KSTP KTBS  
KWCR KWK WDAY WEBC WENR  
WFAA WGAR WIBA WJR WJZ  
WKY WLW WOAI WREN WTMJ

## WEDNESDAY

### ED-5:45 p.m., E-4:45, C-3:45, M-2:45

#### B — Orphan Annie, See Monday

### ED-6:00 p.m., E-5:00, C-4:00, M-3:00

#### C — Dick Mansfield and Orchestra

CFRB CKOK KFH KLZ KSCJ KSL  
KVOB WAAB WABC WACO WBIG  
WBRU WDAE WDBJ WDDO WDDO  
WDRU WDSU WFLA WGST WHAS  
WHEC WHP WISN WKBW WKBN  
WLBW WLBZ WMT WNAX WNOX

WODX WOKO WORS WQAM WREC  
WRSB WSAF WJAS WSPD WTAG  
WTOG

#### R — Waldorf-Astoria, See Monday

### ED-6:30 p.m., E-5:30, C-4:30, M-3:30

#### C — Jack Dempsey, See Monday

#### B — Three X Sisters, See Monday

#### R — Back of the News—Wm. Hard

KECA KEX KFYR KGA KJR KOA  
KPO KSD KTBS KTHS WBNB  
WCKY WDAF WEAF WFBR WIBA  
WIOD WIS WJAR WMAQ WMG  
WOAI WSB WTAG WNNC

### ED-6:45 p.m., E-5:45, C-4:45, M-3:45

#### R — John Pierce, Tenor

KFSD KPO WBNB WCAE WEAF  
WFBR WHO WIS WJAR WMAQ  
WMC WOC WOW WSAI WTAG

#### C — Just Plain Bill, See Monday

#### B — Lowell Thomas, See Monday

#### B — Orphan Annie, See Monday

### ED-7:00 p.m., E-6:00, C-5:00, M-4:00

#### R — Walberg Brown, See Monday

#### C — Howard and Marge, See Monday

#### B — Amos 'n' Andy, See Monday

### ED-7:15 p.m., E-6:15, C-5:15, M-4:15

#### B — Murder Mystery, See Monday

#### C — Buck Rogers, See Monday

### ED-7:30 p.m., E-6:30, C-5:30, M-4:30

#### B — String Symphony

KDKA KOIL KWCR WBAL WCKY  
WIOD WIS WJDX WJZ WMAL  
WMC WREN WSMB WSYR WNNC  
C — Delph Martin, See Monday

#### R — Olivia Allman, See Monday

### ED-7:45 p.m., E-6:45, C-5:45, M-4:45

#### C — Boake Carter, See Monday

#### R — The Goldbergs, See Monday

### ED-8:00 p.m., E-7:00, C-6:00, M-5:00

#### C — Light Opera Gems

CFRB CKOK KFH KLZ KMBC  
KRLD KSCJ KSL KUSA KVOB  
WABC WADC WBCM WBJ WCAH  
WCAU WCAU WDAE WDBJ WDBO  
WDDO WDRU WDSU WEAN WFBL  
WFBM WFLA WGR WGST WHEC  
WHK WHP WIBW WISN WJAS  
WLAC WLBW WLBZ WNAC WNAX  
WNOX WOKO WORC WQAM WREC  
WSPA WSJS WSPD WTAG WTOG  
WYVA

#### B — Eno Crime Club, See Tuesday

#### R — George Olsen-Fanny Brice

KSD WBNB WCAE WCSB WDAF  
WEAF WEEL WFBR WGY WHO  
WJAR WLIT WLS WOC WOW WRC  
WSAI WTAG WTAM WTIC WWJ

### ED-8:30 p.m., E-7:30, C-6:30, M-5:30

#### B — Tastyest Jesters

KDKA WBAL WBZ WBZA WCKY  
WHAM WJZ

#### C — Kate Smith, See Tuesday

R — The Shadow, Mystery Drama  
WBNB WCSH WDAF WEEL WFBR  
WGY WJAR WLIT WRC WTAG  
WTIC

### ED-8:45 p.m., E-7:45, C-6:45, M-5:45

#### B — Phil Cook, See Monday

#### C — Abe Lyman, See Tuesday

### ED-9:00 p.m., E-8:00, C-7:00, M-6:00

#### C — Irvin S. Cobb

CFRB CKOK KFH KLRA KLZ  
KMBC KRLD KSCJ KTRH KTSB  
KVOB WABC WADC WBIG WCAH

## WEDNESDAY—(Cont'd.)

WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRC WDSU WEAN  
WFBL WFPM WFEA WGST WHIEC  
WHK WHF WIBW WICG WISN  
WJAS WJSY WKBW WLAC WLBW  
WLBZ WMBD WMT WNAK WNAX  
WNOX WOKO WORC WPG WQAM  
WREC WSBT WSJS WSPD WTOC

**R — Famous Brands—Ranny Weeks**  
KDYL WFBN WCAE WCSH WDAF  
WEAF WEEL WGY WJAR WLIT  
WVAQ WRC WTAG WTAM WTC  
WWJ

**B — Sherlock Holmes**  
CFCK CKGW KDKA KOIL KWCR  
KWK WBAL WBZ WBZA WGAR  
WHAM WJR WJZ WLS WLW WREN

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Romantic Bachelor**

CFCK KDB KERN KFBK KFH  
KFPY KPRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLD KSCJ KSL KTRH  
KTSa KVI KWG WABC WACO  
WADC WBG WBRC WBT WCAO  
WCAU WCCO WDBJ WDOD WDRC  
WDSU WEAN WFBL WFSM WGN  
WGST WHAS WHK WIBW WISN  
WJAS WJSY WKBH WKBW WKRC  
WLAC WLBZ WBG WMT WNAK  
WNAX WNOX WODX WOKO WOWO  
WREC WSPD WTAR

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**  
**R — Josef Lhevinne, Concert Pianist**

CFCK CKGW KSD WBN WCAE  
WCKY WCSH WDAF WEAF WEEL  
WFBR WFLA WHO WIOD WIS  
WJAR WJAX WLIT WMAQ WOC  
WOW WRC WRV WSAI WTAG  
WTAM WTC WWJ WWCN

**C — Guy Lombardo—Burns and Allen**

CFCK KMBC KMOX KOMA KRLD  
KTRH KTSa WABC WADC WCAO  
WCAU WCCO WDRC WEAN WFBL  
WFSM WGN WHK WJAS WJSY  
WKBW WKRC WNAK WOKO WOWO  
WSPD

**B — Donald Novis**  
KDKA KDYL KFI KGHL KGIR  
KGO KGW KHQ KOA KOIL KOMO  
KPRC KTAR KTBS KTHS KYOO  
KWCR KWK WBAL WBZ WBZA  
WENR WFAA WGAR WHAM WJDX  
WJR WJZ WKY WLW WOAT WREN  
WSB WSM WSMB

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**C — Old Gold—Fred Waring**

CFCK KDB KERN KFBK KFPY  
KPRC KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMO  
KSL KTAT KTRH KTSa KVI KWG  
WAAB WABC WADC WBRC WBT  
WACH WCAO WCAU WCCO WDAE  
WDBO WDOD WDRC WDSU WFBL  
WFSM WGN WGST WHAS WHIEC  
WHK WIBW WJAS WJSY WKBW  
WKRC WODX WOKO WOWO WQAM  
WRC WRV WSPD

**R — Corn Cob Pipe Club**  
KDYL KFI KGHL KGIR KGO KGW  
KHQ KOA KOMO KSD WBN WCAE  
WCSH WDAF WEAF WEEL  
WENR WFBR WGY WHO WJAR  
WLIT WLW WOC WOW WRC WRVA  
WTAG WTAM WTC WWJ

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**B — Vic and Sade, See Tuesday**

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**

**R — Dance Hits of Yesteryear**  
WAPI WBN WCAE WCKY WCSH  
WEAF WEEL WGY WJAR WMC  
WSB WSMB WTAG WTAM WWJ

**R — Carveth Wells**  
KDYL KFYR KGHL KGIR KOA  
KPRC KSD KSTP KTBS KTHS  
WDAF WDAY WECB WFAA WFBR  
WHO WIBA WKY WMAQ WOAI  
WOC WOW WRVA WTMJ

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Myrt and Marge, See Monday**

**C — Little Jack Little**  
CFRB CKOK WAAB WABC WCAO  
WDRC WEAN WHIEC WLBW WLBZ  
WOKO WORC WSPD

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**C — Howard Barlow, See Monday**

**B — Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**B — Murder Mystery, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**C — Joe Haymes and Orchestra**

CFRB CKOK KFAH KFH KLRA  
KLZ KMBC KMOX KSCJ KSL  
KTRH KYOR WAAB WABC WACO  
WADC WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WEAN WFBL WGST WHIEC  
WHK WHP WIBW WICG WISN  
WJSY WKBW WLAC WLBW WLBZ  
WMBD WMT WNAK WNOX WOKO  
WOC WPG WQAM WREC WSBT  
WSJS WSPD WTOC

**B — Sixteen Male Voices**  
KSO KWCR KWK WBAL WBZ  
WBZA WCKY WENR WGAR WHAM  
WJZ WREN

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**  
**C — Eddie Duchin and Orchestra**

CFCK KFAH KLZ KMBC KSCJ  
KTRH KYOR WABC WBRC WBT  
WCAH WCAU WCCO WDAE WDOD  
WDSU WEAN WFBL WGST WHAS  
WHK WHP WICC WISN WJAS  
WJSY WKBW WLBW WMBD WMT  
WNAK WNAX WNOX WOKO WORC  
WPG WREC WSBT WSPD WTOC

**ED-12:15 a.m., E-11:15, C-10:15, M-9:15**  
**B — Sherlock Holmes**

KDYL KFI KFSO KGHL KGIR  
KGO KGW KHQ KOA KOMO KTRH

## THURSDAY

**ED-5:45 p.m., E-4:45, C-3:45, M-2:45**  
**B — Orphan Annie, See Monday**

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**R — Waldorf-Astoria, See Monday**

**C — H. V. Kaltenborn**  
CFRB CKOK KFAH KFH KLZ  
KSCJ KYOR WAAB WABC WACO  
WBG WBRC WDAE WDBJ WDBO  
WDOD WDRC WDSU WEAN WFEA  
WGST WHAS WHIEC WHP WICC  
WIP WISN WKBH WKBN WLBW  
WLBZ WMT WNAK WNOX WODX  
WOKO WORC WQAM WREC WSBT  
WSFA WSJS WSPD WTAQ WTAR  
WTOC

**ED-6:15 p.m., E-5:15, C-4:15, M-3:15**  
**C — Ozzie Nelson and Orchestra**

CFRB CKOK WAAB WABC WACO  
WBG WBRC WCAO WDAE WDBJ  
WDBO WDOD WDRC WDSU WFEA

WGST WHIEC WHP WLBW WLBZ  
WNOX WODX WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSPD  
WTAR WTOC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**

**C — Gertrude Niesen**  
CFRB CKOK WAAB WABC WACO  
WADC WBG WCAU WDBJ WDOD  
WDRC WDSU WFEA WGR WGST  
WHIEC WHP WJSY WKBH WLAC  
WLBW WLBZ WNOX WOKO WORC  
WQAM WREC WSBT WSFA WSJS  
WSPD WTOC

**R — Three Keys**  
KECA KEX KFSO KFYR KGA  
KJR KOA KPO KSD KTBS KTHS  
WAPI WDAF WDAY WEAF WFBR  
WFI WIBA WIS WJAR WMAQ  
WMC WOAI WSAI WSB WSMB  
WTAG WWJ WWCN

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**  
**R — Diga Albani, See Monday**

**C — Just Plain Bill, See Monday**  
**B — Lowell Thomas, See Monday**  
**B — Orphan Annie, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**R — Walberg Brown, See Monday**

**C — Myrt and Marge, See Monday**  
**B — Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**  
**C — Buck Rogers, See Monday**

**B — Concert Footlights**  
KOA KOIL KSO KWCR WBAL  
WIS WJZ WMAQ WREN WSM  
WSYR WVMC

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**  
**C — Keller, Sargent, See Tuesday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**  
**C — Boake Carter, See Monday**  
**R — The Goldbergs, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**  
**C — Evan Evans—Do Re Mi**

CFRB CKOK KFH KLRA KMBC  
KSCJ KTRH KTSa KYOR WABC  
WADC WCAH WCAO WDAE WDBJ  
WDBO WDOD WDRC WDSU WEAN  
WFBL WFPM WFEA WGR WGST  
WHAS WHIEC WHP WHP WIBW  
WIP WISN WJAS WJSY WKBH  
WLAC WLBW WLBZ WMBG WNAK  
WNOX WOKO WPG WQAM WREC  
WSFA WSJS WSPD WTAQ WTAR  
WTOC WWVA

**R — Rudy Vallee and Orchestra**

CFCK CKGW KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTAR WAPI WBAK  
WBN WCAE WCKY WCSI WDAF  
WDAY WEAF WECB WEEI WFBR  
WFI WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WMAQ WMC  
WOAI WOC WOW WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTMJ WWJ

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**  
**C — Kate Smith, See Tuesday**

**B — Rin Tin Tin Thriller**  
KDKA KOIL KWK WBZ WBZA  
WGAR WHAM WJZ WLS WLW  
WREN

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**  
**C — Abe Lyman, See Tuesday**

**B — Howard Thurston, Magician**  
KDKA KOIL KWK WBZ WBZA  
WGAR WHAM WJR WJZ WLS  
WLW WREN



**THURSDAY—(Continued)**

**ED-9:00 p.m., E-8:00, C-7:00, M-6:30**

**C—Easy Aces, See Tuesday**

**R—Maxwell House Showboat**

KDYL KFI KFSD KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP  
KTAR KTBS WAPI WBEN WCAE  
WKCY WCSH WDAF WFAF WBEI  
WFBR WFI WFLA WGY WHO  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WMC WOAI WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTMJ WJW  
WVNC

**B—Death Valley Days**

KDKA KOIL KWK WBAL WBZ  
WBZA WGAR WHAM WJR WJZ  
WLS WLW WREN

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**

**C—Fray and Braggiotti**

CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KTRH KTSB KVOR  
WABC WADC WBIG WCAH WCAO  
WCAU WDAE WDBJ WDBO WDOD  
WDRC WDSU WEAN WFBL WFEA  
WGST WHEC WHP WIBW WICC  
WISN WJAS WKBN WKWB WLAC  
WLWB WLWZ WMT WNAC WNAX  
WNOX WOKO WORC WPG WQAM  
WREC WSBT WSJS WSPD WTOC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**

**C—Col. Stoopnagle and Budd**

CKOK KSCJ KERN KTSB KFH  
KFYP KTRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KSCJ KSL KTRH KTAT  
KTSB KVI KWG WABC WADC  
WBRC WBD WCAH WCAO WCAU  
WCCO WDAE WDBJ WDRC WDSU  
WEAN WFBL WFBM WGN WGST  
WHAS WHEC WHK WJAS WJSV  
WKWB WKRC WLAC WNAC WOKO  
WOWO WQAM WREC WRR WSPD  
WTAR

**B—Wayne King and Orchestra**

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WENR WJZ  
WREN

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**

**C—The Foreign Legion**

CFRB CKOK KLRA KLZ KSCJ  
KTRH KTSB KVOR WAAB WABC  
WBMM WBIG WBRC WCAO WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WEAN WFBL WFEA  
WGST WHEC WHK WHP WIBW  
WICC WKBN WLWB WLWZ WMT  
WNAX WNOX WODX WOKO WORC  
WQAM WREC WSJS WSPD WTAR  
WTOC

**R—Lucky Strike—Jack Pearl**

KDYL KFI KFSD KFYR KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTBS KTHS KVVO WBAP  
WBEN WCAE WCSH WDAF WDAY  
WEAF WECB WEI WENR WFBR  
WFI WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WLW WMC WOAI WOC WOW WRC  
WRVA WSB WSM WSMB WTAG  
WTAM WTMJ WJW WVNC

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**

**B—Vic and Sade, See Tuesday**

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**

**C—Boswell Sisters**

CFRB CKOK KLRA KLZ KMBC  
KSCJ KTRH KTSB KVOR WAAB  
WABC WADC WBMM WBIG WCAH

WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRG WDSU WEAN  
WFBL WFBM WFEA WGST WHEC  
WHK WHP WIBW WICC WISN  
WJAS WJSV WKBN WKWB WLAC  
WLWB WLWZ WMBD WMT WNAX  
WNOX WOKO WORC WPG WQAM  
WREC WSBT WSJS WSPD WTOC

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**

**C—Charles Carlile, See Tuesday**

**C—Myrt and Marge, See Monday**

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**

**B—Southern Singers, See Monday**

**R—James Melton, Tenor**

KSD WCAE WKCY WFAF WFBR  
WRC WSAI WTAG WJZ  
**C—Howard Barlow, See Monday**  
**B—Amos 'n' Andy, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**

**C—Ted Lewis, See Monday**

**R—Jack Denny, See Monday**

**ED-12:15 a.m., E-11:15, C-10:15, M-9:15**

**B—Howard Thurston, Magician**  
KDYL KFI KGO KGW KHQ KOA  
KOMO

**FRIDAY**

**ED-5:45 p.m., E-4:45, C-3:45, M-2:45**

**B—Orphan Annie, See Monday**

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**

**R—Waldorf-Astoria, See Monday**

**C—Do Re Mi Girls**

CFRB CKOK KFH KLZ KSCJ KSL  
KTRH KVOR WAAB WABC WACO  
WBIG WBRC WDAE WDBJ WDBO  
WDOD WDRC WDSU WFA WGST  
WHAS WHEC WHP WICC WIP  
WISN WKBN WRBN WKWB WLAC  
WLWB WLWZ WMT WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSBT WSPA WSJS WSPD WTAQ  
WTAR WTOC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**

**R—Betty Bop-Mae Questel**

KFSD KFYR KOA KPO KSD KTBS  
KTBS WBEN WDAF WFAF WFBR  
WGY WBA WIS WJDX WOAI  
WSB WSMB WVNC  
**B—Three X Sisters See Monday**

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**

**C—Just Plain Bill, See Monday**

**B—Lowell Thomas, See Monday**

**B—Orphan Annie, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**

**R—Walberg Brown, See Monday**

**C—Myrt and Marge, See Monday**

**B—Amos 'n' Andy, See Monday**

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**

**C—Buck Rogers, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**

**B—Five Star Theatre, See Monday**

**C—Dolphin Martin, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**

**C—Boake Carter, See Monday**

**R—The Goldbergs, See Monday**

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**

**C—Betty Barthell**

CFRB CKOK KFH KLRA KLZ  
KMBC KRLD KSCJ KSL KTSB  
KVOR WABC WBIG WCAH WCAO  
WCCO WDAE WDBJ WDBO WDOD

WDRC WDSU WEAN WFBL WFBM  
WFEA WGST WHEC WHK WHP  
WIBW WJAS WJSV WLAC WLWB  
WLWZ WNAC WNAX WNOX WOKO  
WORC WQAM WREC WSPA WSJS  
WSPD WTOC

**R—Cities Service Concert**

CKGW KDYL KOA KPRC KSD  
KSTP KTBS KYW WEAN WCAE  
WCSH WDAF WFAF WECB WEEI  
WFAA WFER WGY WHO WJAR  
WKY WLIT WOAI WOC WOW WRC  
WSAI WTAG WTAM WTIC WTMJ  
WVWJ

**B—Nestle's Program**

KDKA KOIL KWK WBAL WBZ  
WBZA WGAR WHAM WJR WJZ  
WLS WREN

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**

**C—Carson Robinson and Klara**

CFRB CKOK KFH KLRA KLZ  
KMBC KMOX KSCJ KSL KTSB  
KVOR WABC WADC WBIG WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRG WDSU WEAN  
WFBL WFBM WFEA WGR WGST  
WHEC WHK WHP WIBW WICC  
WISN WJAS WJSV WLAC WLWB  
WLWZ WNAC WNAX WODX WOKO  
WORC WPG WQAM WREC WSPA  
WSJS WSPD WTOC

**B—Horlick Program, See Tuesday**

**ED-8:45 p.m., E-7:45, C-6:45, M-5:45**

**B—Howard Thurston, See Thursday**

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**

**C—Irvin S. Cobb, See Wednesday**

**B—First Nighter, Drama**

KDKA KDYL KFI KFSD KGO KGW  
KHQ KOA KOIL KOMO KPRC  
KSTP KTAR KTBS KWK WAPI  
WBAL WBZ WBZA WKCY WECB  
WGAR WHAM WJR WJZ WKY WLS  
WOAI WREN WSB WSM WSMB  
WTMJ

**R—Musical Grocery Store**

KSD WEAN WCAE WCSH WDAF WFAF  
WFEI WFER WGY WJAR WLIT  
WMAQ WRC WTAG WTAM WTIC

**ED-9:30 p.m., E-8:30, C-7:30, M-6:30**

**R—Pond's Program**

KSD WEAN WCAE WCSH WDAF  
WFAF WENR WFBR WGY WHO  
WJAR WLIT WOC WOW WRC WSAI  
WTAG WTAM WJW

**C—Edwin C. Hill, Inside Story**

CKOK KFH KLRA KMBC KMOX  
KOMA KRLD KTRH KTSB WABC  
WADC WBCM WCAH WCAO WCAU  
WCCO WDRG WEAN WFBL WFBM  
WGN WHAD WHAS WIJK WHP  
WIBW WJAS WJSV WKBN WKWB  
WKRC WLWB WLWZ WMBD WNAC  
WOKO WORC WOWO WREC WSPD

**B—Armour Program**

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KPRC KSO KSTP  
KWK WAPI WBAL WBZ WBZA  
WECB WFAA WGAR WHAM WIOD  
WJAX WJR WJZ WKY WMAQ  
WMC WOAI WREN WRVA WSB  
WSM WSMB WTMJ WVNC

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**

**C—Columbia Revue**

CFRB CKOK KLRA KLZ KMBC  
KSCJ KSL KTRH KTSB KVOR  
WAAB WABC WADC WBIG WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRG WDSU WEAN  
WFBL WFBM WFEA WGST WHEC

**FRIDAY—(Continued)**

WHP WIBW WICC WJAS WJSV  
 WKBW WLAC WLWB WLWB WMBD  
 WMT WNAX WNOX WODX WOKO  
 WORC WQAM WREC WSBT WSJS  
 WSPD WTOC

**R—Chevrolet—Jack Benny**

KDYL KFI KFSD KFYZ KGHK  
 KGIR KGO KGW KHQ KOA KOMO  
 KPRC KSD KSTP KTAI KTBS  
 KTHS KYOO WBBN WCAE WCHS  
 WDAF WDAY WEAF WEBC WEEL  
 WENR WFAA WFBW WFLA WGY  
 WHO WIBA WIOD WIS WJAR  
 WJAX WKY WLIT WLW WMC  
 WQAI WOC WOW WRC WRVA WSB  
 WSM WSMB WTAG WTAM WTC  
 WTMJ WWJ WWNC

**B—Dorothy Fields—Jimmy McHugh**

CFCF KOIL KPRC KSO WBAL  
 WCKY WHAM WJR WJZ WMAQ  
 WREN WSYR

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**

**B—Vic and Sade, See Tuesday**

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**

**C—Street Singer**

CFRB CKOK KLRA KLZ KMBC  
 KSCJ KTRH KTAI KVOR WAAB  
 WABC WADC WBIG WCAH WCAO  
 WCAU WCCO WDBJ WDBO WDOD  
 WDRC WDSU WEAN WFBL WFBM  
 WGST WHEC WHK WHP WIBW  
 WICC WISN WJAS WJSV WKBW  
 WLAC WLWB WLWB WMBD WMT  
 WNAX WNOX WODX WOKO WORC  
 WPG WQAM WREC WSBT WSJS  
 WSPF WTOC

**R—Richfield Country Club**

WBN WCAE WEAF WEEL WFBR  
 WGY WJAR WLIT WRC WTC

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**

**C—Little Jack Little, See Wednesday**  
**C—Myrt and Marge, See Monday**

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**

**C—Howard Barlow, See Monday**

**B—Amos 'n' Andy, See Monday**

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**

**B—Welcome Lewis, Vocalist**

CFCF CKGW KSO KSTP KWCR  
 KWK WBAL WBZ WBZA WCKY  
 WFLA WGAR WHAM WIBA WIOD  
 WIS WJAX WJR WJZ WREN WSYR  
 WWNC

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**

**C—Abe Lyman, See Tuesday**

**B—Phantom Gypsy, See Monday**

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**

**C—Ben Pollack and Orchestra**

CKOK KFAB KLZ KMBC KRLL  
 KSCJ KSL KTRH KVOR WABC  
 WBRW WBT WCAU WCCO WDAE  
 WDOD WDSU WICC WISN WJSV  
 WLWB WMBD WNAC WNAX WOKO  
 WPG WSBT WSPD WTOC

**ED-12:15 a.m., E-11:15, C-10:15, M-9:15**

**B—Howard Thurston, See Thursday**

**ED-12:30 a.m., E-11:30, C-10:30, M-9:30**

**R—Musical Grocery Store**

KDYL KFI KFSD KGO KGW KHQ  
 KOA KOMO KTAI

**SATURDAY**

**ED-5:45 p.m., E-4:45, C-3:45, M-2:45**

**B—Orphan Annie, See Monday**

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**

**B—Don Bestor and Orchestra**

KDKA KOIL KSO KWCR KWK  
 WBAL WENR WHAM WJR WJZ  
 WMAL WREN WSYR

**C—America's Grub Street**

KFRB CKOK KFAB KFH KSCJ KSL  
 KTRH KVOR WAAB WABC WADC  
 WBBM WBCM WBIG WBRW WBT  
 WCAO WCAU WCCO WDAE WDBO  
 WDOD WDRC WDSU WEAN WFLA  
 WHEC WICC WISN WJSV WKBH  
 WLWB WLWB WNAX WOKO WORC  
 WTAQ WTAR WTOC WWVA

**R—Waldorf-Astoria, See Monday**

**ED-6:15 p.m., E-5:15, C-4:15, M-3:15**

**C—Paul Tremaine and Orchestra**

CFRB CKOK KFH KIZ KSCJ KTRH  
 KVOR WAAB WABC WACO WADC  
 WBRW WCAH WCAO WCCO WDAE  
 WDBJ WDBO WDOD WDRC WDSU  
 WEAN WFBL WFEA WGR WGST  
 WHEC WHP WIBW WIP WISN  
 WJAS WJSV WKBH WLAC WLWB  
 WLWB WMBG WNOX WODX WOKO  
 WORC WQAM WREC WSFA WSJS  
 WSPD WTAQ WTAR WTOC

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**

**C—Orzie Nelson and Orchestra**

CFRB CKOK KTRH WAAB WABC  
 WACO WADC WBIG WCAO WCAU  
 WDAE WDBJ WDBO WDOD WDRC  
 WDSU WEAN WFEA WGR WGST  
 WHEC WHP WICC WJSV WLAC  
 WLWB WLWB WNOX WODX WOKO  
 WORC WQAM WREC WSBT WSFA  
 WSJS WSPD WTOC

**B—Laws That Safeguard**

KDYL KFX KFSD KFYZ KGA KGIR  
 KJR KOA KOIL KPO KPRC KSO  
 KSTP KTAI KTBS KTHS KWCR  
 KWK WBAL WBZ WBZA WCKY  
 WEBC WFLA WIBA WIOD WIS  
 WJAX WJR WJZ WKY WMAQ  
 WMC WOAI WREN WRVA WSB  
 WSMB WWNC

**ED-6:45 p.m., E-5:45, C-4:45, M-3:45**

**R—Southern Singers**

CKGW WREN WCAE WEAF WEEL  
 WFBR WGY WIOD WIS WJAR  
 WJAX WMC WRC WSAI WTAG  
 WWNC

**B—Orphan Annie, See Monday**

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**

**B—American Taxpayers' League**

KDKA KDYL KFSD KGA KIR KOA  
 KPO KSO KTBS KWCR WBAL  
 WEBC WFLA WHAM WIBA WJR  
 WJZ WMAL WMC WSB WSMB  
 WSYR WWNC

**C—Frederic William Wile**

KMBC KRLL KTRH WABC WADC  
 WBBM WBCM WBIG WBRW WBT  
 WCAO WCAU WDAE WDBO WDOD  
 WDRC WDSU WEAN WFBM WFEA  
 WGR WHEC WHK WICC WJAS  
 WJSV WLWB WLWB WNAC WOKO  
 WQAM WSFA WSPD WTAR WWVA

**ED-7:15 p.m., E-6:15, C-5:15, M-4:15**

**C—Charles Barnet and Orchestra**

CFRB CKOK KFAB KFH KLRA  
 KMBC KMOX KSCJ KSL KTRH  
 KVOR WABC WADC WBBM WBIG

WCAH WCAO WCAU WCCO WDAE  
 WDBJ WDOD WDRC WDSU WEAN  
 WFLB WFBM WFEA WGR WGST  
 WHEC WHP WICC WISN WJAS  
 WJSV WLAC WLWB WLWB WNAC  
 WNAX WNOX WOKO WORC WQAM  
 WREC WSFA WSJS WSPD WTAQ  
 WWVA

**B—Murder Mystery, See Monday**

**ED-7:30 p.m., E-6:30, C-5:30, M-4:30**

**R—Elvia Allman, See Monday**

**ED-7:45 p.m., E-6:45, C-5:45, M-4:45**

**B—Vincent Lopez and Orchestra**

KDKA KDYL KFSD KFYZ KOA  
 KPO KSO KTBS WBAL WEBC  
 WFLA WIRA WJR WJZ WMC WSB  
 WSMB WSYR WWNC

**R—The World Today**

KFRB KTBS WBBN WDAF WEAF  
 WENR WFBW WFLA WGY WHO  
 WIBA WIS WJAR WJAX WKY  
 WOAI WOC WOW WPTF WRC  
 WSAI WTAG WTAM WTTJ WWNC

**C—Street Singer**

KFRB CKOK KMBC KMOX KRLL  
 KSCJ KSL KTRH KVOR WABC  
 WADC WBCM WBIG WBRW WBT  
 WCAO WCAU WCCO WDAE WDBO  
 WDOD WDRC WDSU WEAN WFBM  
 WFEA WGR WHEC WISN WJAS  
 WJSV WKBH WLWB WLWB WNAC  
 WOKO WQAM WSFA WSPD WTAQ  
 WTAR WTOC

**ED-8:00 p.m., E-7:00, C-6:00, M-5:00**

**R—Kaltenmyer's Kindergarten**

CKGW KFYZ KPO KOA KPRC KSD  
 KSTP KTBS WBBN WCKY WDAF  
 WDAY WEAF WEBC WEEL WFI  
 WGY WHO WIBA WIOD WIS WJAR  
 WMAQ WMC WOAI WOC WRC  
 WSAI WSMB WTAG WJZ WWNC

**ED-8:15 p.m., E-7:15, C-6:15, M-5:15**

**C—Magic Voice, See Tuesday****B—Boston Symphony Orchestra**

CFCF CKGW KDKA KOIL KSO  
 KWCR KWK WBAL WBZ WBZA  
 WCKY WGAR WHAM WJR WJZ  
 WREN

**ED-8:30 p.m., E-7:30, C-6:30, M-5:30**

**C—Leon Belasco and Orchestra**

CFRB CKOK KFH KLRA KLZ  
 KMBC KSCJ KSL KTRH KTAI  
 KVOR WABC WADC WBIG WCAH  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WEAN  
 WFBL WFBM WFEA WGR WGST  
 WHEC WHK WHP WIBW WICC  
 WISN WJAS WJSV WLAC WLWB  
 WLWB WMT WNAX WNAX WNOX  
 WODX WOKO WORC WQAM WREC  
 WSBT WSFA WSPD WTAQ WTOC

**R—Economic World Today**

KDYL KFSD KFYZ KGA KFHL  
 KGIR KJR KOA KPO KPRC KSD  
 KSTP WABI WBAF WBBN WBSH  
 WDAF WDAY WEAF WEBC WEEL  
 WFBR WFI WFLA WGY WHO WIBA  
 WIOD WIS WJAR WJAX WKY  
 WMAQ WMC WOAI WOC WOW  
 WRC WSAI WSMB WTAG WTAM  
 WWJ WWNC

**ED-9:00 p.m., E-8:00, C-7:00, M-6:00**

**C—Easy Aces, See Tuesday**

**R—Ranny Weeks, See Wednesday**

**SATURDAY—(Continued)**

**ED-9:15 p.m., E-8:15, C-7:15, M-6:15**  
**C — Boswell Sisters**  
CFRB CKOK KFH KLRA KLZ  
KMBC KMOX KRDL KSCJ KSL  
KTRH K TSA KVOR WAAB WABC  
WACO WADC WBBM WBCM WBIG  
WBRC WBT WCAH WCAO WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBL WFBM WFEA WGST  
WHAS WHC WBW WICC WIP  
WISN WJAS WJSV WKBH WKBW  
WLWB WLWZ WMT WNAX WNOX  
WODX WOKO WOPG WQAM  
WREC WSPD WTAR WTCO

**ED-9:45 p.m., E-8:45, C-7:45, M-6:45**  
**C — Saturday Frivolities**  
CFRB CKOK KFH KLRA KLZ  
KMBC KMOX KSCJ KSL KTRH  
K TSA KVOR WABC WADC WBBM  
WBIG WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBL WFBM WFEA WGST  
WHP WIBW WICC WJAS WJSV  
WKBW WLAC WLWB WLWZ WMBD  
WMT WNAC WNAX WNOX WODX  
WOKO WORC WPG WQAM WREC  
WSBT WSJS WSPD WTCO

**ED-10:00 p.m., E-9:00, C-8:00, M-7:00**  
**B — Gilbert and Sullivan Gems**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WFLA  
WGAR WHAM WIS WJAX WJR  
WJZ WMAL WREN WRVA WSYR  
WWNC  
**R — B. A. Rolfe and Orchestra**  
CFBC CKGW KDYL KFI KGO  
KOA KSD KSTP WBAP WBN  
WCAE WCSH WDAF WFAE WEI  
WFBR WFI WGY WHO WJAR  
WLW WMAQ WOC WOW WRC  
WSB WSMB WTAG WTAM WWJ

**ED-10:15 p.m., E-9:15, C-8:15, M-7:15**  
**C — Public Affairs Institute**  
KFH KLZ KSCJ KTRH K TSA KVOR  
WAAB WABC WADC WBBM WBCM  
WBIG WBRC WBT WCAO WCAU  
WCCO WDAE WDBO WDOD WDR  
WDSU WEAN WFBL WFEA WHEC  
WICC WJAS WJSV WKBH WLWB  
WLWZ WMBD WNAX WOKO WORC  
WPG WQAM WSBT WSJS WSPD  
WTAR WTCO WWVA

**ED-10:30 p.m., E-9:30, C-8:30, M-7:30**  
**B — Cuckoo Program**  
CKGW KDKA KOIL KSO KWCR  
KWK KYW WBAL WCKY WGAR  
WHAM WJZ WREN WSYR

**ED-10:45 p.m., E-9:45, C-8:45, M-7:45**  
**C — Gertrude Nielsen**  
CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KTRH K TSA KVOR  
WAAB WABC WBIG WCAO WDAE  
WDBJ WDBO WDOD WDR WDSU  
WEAN WFEA WGST WHAS WHC  
WHK WHP WICC WIP WISN WJAS  
WJSV WKBW WLAC WLWB WLWZ  
WMBD WMT WNAX WNOX WODX  
WOKO WORC WPG WQAM WREC  
WSBT WSJS WSPD WTAR WTCO  
WWVA

**ED-11:00 p.m., E-10:00, C-9:00, M-8:00**  
**B — The Buccaneers' Vocal Trio**  
KDKA KDYL KFSB KFYR KGHL  
KOA KOIL KPO KPRC KSO KSTP  
KTBS KWCR KWK KWB WLWB

WBZA WBC WFAA WFLA WGAR  
WHAM WIBA WIOD WIS WJDX  
WJR WJZ WKY WLW WMAQ WMC  
WREN WSB WSMB WSYR WWNC  
**C — Joe Haymes and Orchestra**  
CFRB CKOK KFAB KLRA KLZ  
KMBC KSCJ KSL KTRH KVOR  
WAAB WABC WACO WADC WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDSU WEAN WFBM  
WGR WGST WHEC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WLAC WLWB WLWZ WMBD WMT  
WNAX WNOX WODX WOKO WORC  
WQAM WRC WSBT WSJS WSPD  
WTCO WWVA

**ED-11:10 p.m., E-10:10, C-9:10, M-8:10**  
**R — Jack Denny and Orchestra**  
KSD WBEN WCAE WCKY WCSH  
WDAF WFAE WEI WFBR WFI  
WGY WHO WJAR WMAQ WOC  
WRC WSAI WTAG WWJ

**ED-11:15 p.m., E-10:15, C-9:15, M-8:15**  
**B — Murder Mystery, See Monday**

**ED-11:30 p.m., E-10:30, C-9:30, M-8:30**  
**B — Phantom Gypsy, See Monday**  
**R — Harold Stern and Orchestra**  
KSD WBEN WCAE WCKY WCSH  
WDAF WFAE WEI WFBR WFI  
WGY WHO WJAR WMAQ WOC  
WRC WSAI WTAG WTAM WWJ

**ED-12:00 a.m., E-11:00, C-10:00, M-9:00**  
**R — Johnny Johnson and Orchestra**  
KSD WCAE WCKY WDAF WFAE  
WFBR WFI WGY WHO WJAR  
WMAQ WOC WRC WTAG WTAM  
**C — Ben Pollack, See Friday**  
**B — Mark Fisher's Orchestra**  
KOIL KSO KWCR KWK KYW  
WGAR WJZ WLW WRC WREN

**ED-12:30 a.m., E-11:30, C-10:30, M-9:30**  
**R — Art Kassel and Orchestra**  
KSD WBEN WCAE WCKY WDAF  
WFAE WFBR WFI WHO WJAR  
WOC WRC WTAG WTAM  
**B — Sam Robbins' Bermudians**  
KDYL KCA KEX KFSB KFYR  
KGA KJR KOIL KPO KPRC KSTP  
KTBS KYOO KWCR KWK KYW  
WDAY WNBC WFAA WFLA WGAR  
WHAM WIBA WIOD WJAX WJZ  
WKY WLW WMC WQAI WREN  
WSB WSMB WWNC

**SUNDAY**

**ED-11:15 a.m., E-10:15, C-9:15, M-8:15**  
**R — Major Bowes' Family**  
KDYL KEX KFSB KFYR KGA KJR  
KOA KPO KPRC KYOO WBAW  
WDAF WDAY WEAP WBER WFLA  
WGY WHO WIOD WJAR WJAX  
WKY WMC WOC WRC WSM WSMB  
WTAG WTAM WTMJ WWJ WWNC

**ED-12:00 p.m., E-11:00, C-10:00, M-9:00**  
**C — Salt Lake Tabernacle Choir**  
CFRB CKOK KFAB KLZ KSCJ KSL  
KTRH K TSA KVOR WABC WADC  
WBCM WBIG WBT WCAO WCAU  
WCCO WDAE WDBO WDOD WDR  
WDSU WEAN WFEA WGR WHEC  
WHC WIBW WISN WJAS WJSV  
WKBH WKBW WLWB WLWZ WMBD  
WNAX WNOX WODX WOKO WORC  
WPG WQAM WSBT WSJS WSPD  
WTAQ WTAR WWVA

**ED-12:15 p.m., E-11:15, C-10:15, M-9:15**  
**B — Radio City Concert**  
CFBC CKGW KDKA KDYL KECA  
KEX KFSB KFYR KGA KJR KOA  
KOIL KPO KPRC KSTP KTR  
KVOD KWK WAPI WBAL WBZ  
WBZA WDAY WNBC WFAA WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJR WJZ WKY WLW WMAQ  
WQAI WRC WREN WRVA WSB  
WSM WSMB WSYR WWNC

**ED-12:30 p.m., E-11:30, C-10:30, M-9:30**  
**C — Emery Deutsch and Orchestra**  
CFRB CKOK KFAB KLZ KMBC  
KSCJ KSL KTRH K TSA KVOR  
WAAB WABC WADC WBIG WCAH  
WCAO WCCO WDAE WDBJ WDBO  
WDOD WDSU WFBL WFEA WGR  
WGST WHEC WHK WHP WIBW  
WISN WJAS WJSV WKBW WLWB  
WLWZ WMBD WMT WNAX WOKO  
WORC WPG WQAM WREC WSBT  
WSJS WSPD WTAQ WTCO WWVA

**R — Walter Logan Pop Concert**  
CFBC CKGW KDYL KFYR KOA  
KPRC KSTP KTBS KYOO WAPI  
WBEN WCAE WCKY WCSH WDAF  
WDAY WFAE WNBC WEI WFAA  
WFBR WFI WGY WHO WIBA  
WIOD WIS WJAR WKY WQAI  
WOC WRVA WSAI WSB WSMB  
WSMB WTAG WTAM WWJ WWNC

**ED-12:45 p.m., E-11:45, C-10:45, M-9:45**  
**C — Street Singer**  
CFRB CKOK KFAB KLZ KMBC  
KSCJ KSL KTRH K TSA KVOR  
WABC WADC WBCM WBIG WBT  
WCAO WCCO WDAE WDBO WDOD  
WDSU WGR WHC WHK WHP  
WISN WJAS WJSV WKBH WKBW  
WLWB WLWZ WMBD WNAX WODX  
WOKO WPG WQAM WSJS WSPD  
WTAQ WTAR WTCO WWVA

**ED-1:00 p.m., E-12:00, C-11:00, M-10:0**  
**C — Columbia Church of the Air**  
CFRB CKOK KLZ KSCJ KSL KTRH  
K TSA KVOR WAAB WABC WADC  
WBCM WBIG WCAO WCCO WDAE  
WDBO WDOD WDR WDSU WGR  
WHEC WIBW WJAS WJSV WKBH  
WLWB WLWZ WNAX WODX WOKO  
WPG WQAM WSBT WSJS WSPD  
WTAQ WTAR WTCO WWVA

**ED-1:15 p.m., E-12:15, C-11:15, M-10:15**  
**B — Cook Travelogues**  
KDKA WBAL WBZ WBZA WCKY  
WGAR WHAM WJR WJZ WMAL  
WMAQ WSYR

**ED-1:30 p.m., E-12:30, C-11:30, M-10:30**  
**C — Lazy Dan, Minstrel Man**  
CKOK KMBC KMOX WAAB WABC  
WBBM WCAH WCAO WCAU WCCO  
WHAS WJAS WJST WKRC WMBG  
**R — Moonshine and Honeysuckle**  
CFBC CKGW KFI KFSB KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTBS KYOO WAPI  
WBEN WCAE WCKY WCSH WDAF  
WDAY WFAE WNBC WFAA WFI  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WKY WMAQ WQAI WOC  
WOW WRC WRVA WSAI WSB  
WSM WSMB WTAG WTAM WWJ  
WWNC

**SUNDAY—(Continued)**

**ED-2:00 p.m., E-1:00, C-12:00, M-11:00**  
**C — Smiling Ed McConnell**  
CKOK KERN KFBC KFPY KFRC  
KGB KHJ KLZ KMBC KMOX KOIN  
KOL KSL KVI KWG WABC WBBM  
WBT WCCO WDSU WGR WGST  
WHAS WHEC WJAS WJSV WKRC  
WLAC WNAC WOWO WQAM WRR  
**B — Monarch Mystery Tenor**  
KDKA KDYL KFI KFJR KGO KOA  
KOIL KSO KSTP KWCR KWK WBZ  
WBZA WCKY WDAY WBCB WGAR  
WHAM WIBA WJAR WJAX WJZR  
WJZ WMAQ WREN WTMJ WWNC  
**R — Clyde Doerr's Saxophone Octet**  
CFCF KSD KTBS KTHS WAPI  
WBEN WCAE WCKY WFAA WFAE  
WFBR WGY WHO WJAR WJDX  
WMC WOAI WOC WOW WSAI  
WSM WSBM WTAG WTAM WWJ

**ED-2:15 p.m., E-1:15, C-12:15, M-11:15**  
**R — Pilgrims Mixed Chorus**  
CFCF KDYL KFI KFSD KFJR  
KGHL KGIR KGO KHQ KOA KOMO  
KPRC KSD KTAR KTBS KTHS  
KV00 KYW WAFI WBEN WCKY  
WCSH WDAY WEAF WBCB WEEI  
WFAA WFBR WGY WHO WIBA WIS  
WJAR WJAX WJDX WKY WMC  
WOAI WOC WOW WPTF WRVA  
WSAI WSM WSBM WTAG WWJ  
WWNC

**B — International Radio Forum**  
KDKA KOIL KSO KWCR KWK  
WBAL WJZ WMAL WMAQ WREN  
WSYR

**C — Albert Bartlett Tango King**  
CKOK KMBC KMOX WABC WBBM  
WCAO WCAU WGR WHFC WHK  
WJAS WJSV WKRC WNAC WOKO  
WOWO

**ED-2:30 p.m., E-1:30, C-12:30, M-11:30**  
**R — Joe Green's Marimba Band**  
CFCF CKGW WBEN WCAE WCKY  
WDAF WFAE WFBR WGY WJAR  
WMAQ WOC WWR WTAG WTAM  
**B — Northwestern Chronicle, Drama**  
KDKA KDYL KFI KFSD KFJR  
KGHL KGIR KGO KGW KHQ KOA  
KOIL KOMO KPRC KSO KSTP  
KTAR KTHS KV00 KWCR KWK  
KYW WAPI WBAL WBZ WBZA  
WDAY WBCB WFAA WFLA WGAR  
WHAM WIHA WIOD WIS WJAX  
WJDX WJR WJZ WKY WLW WMAL  
WMC WOAI WPTF WREN WRVA  
WSB WSM WSBM WTMJ WWNC  
**C — Victor Arden and Orchestra**  
CKOK KMBC KMOX WABC WBBM  
WCAO WCAU WGR WHFC WHK  
WJAS WJSV WKRC WNAC WOKO  
WOWO

**ED-3:00 p.m., E-2:00, C-1:00, M-12:00**  
**B — Goldman Band**  
KOIL KSO KWCR KWK WBAL  
WCKY WGAR WHAM WJZ WMAL  
WMAQ WREN WSYR  
**C — N. Y. Philharmonic Orchestra**  
CFRB CKOK KFAB KFH KIZ KMBC  
KRLD KSCJ KSL KTRH KVOR  
WAAB WABC WADC WBCM WBIG  
WBRC WBT WCAO WCCO WDAE  
WDBO WDDO WDRC WDSU WFAE  
WFBM WFEA WHEC WHK WIBW  
WICP WIP WISN WJAS WJSV WKBH  
WKBN WKBW WLWB WLZB WMDB  
WODX WOKO WORC WQAM WSBT  
WSFA WSJS WSPD WTAQ WTAR  
WTOC WWVA

**R — Wayne King and Orchestra**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KPRC KSD KSTP KTBS  
KTHS KV00 KYW WBEN WCAE  
WCKY WCSH WDAF WFAE WFCB  
WEEI WFAA WFBR WGY WHO  
WIBA WJAR WKY WLIT WOAI  
WOC WOW WRC WSAI WTAG  
WTAM WTMJ WWJ

**ED-3:30 p.m., E-2:30, C-1:30, M-12:30**  
**R — Dr. S. Parkes Cadman**  
KDYL KFSD KFJR KGHL KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTHS KV00 WBEN  
WCAE WCSH WDAF WDAY WFAE  
WFCB WEEI WFBR WGY WHO  
WIBA WJAR WKY WLIT WOAI  
WOC WOW WRC WSAI WTAM WWJ

**ED-4:00 p.m., E-3:00, C-2:00, M-1:00**  
**R — Singing, Well-Spring of Music**  
CFCF CKGW KDYL KFI KFSD  
KFJR KGO KGW KHQ KOA KOMO  
KPRC KTAR KTHS KTHS KV00  
WAFI WBAF WBEN WCAE WDAF  
WEAF WBCB WFBR WFLA WGY  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMAQ WMC WOAI  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WWJ WWNC  
**B — Dick Daring Children's Sketch**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WHAM  
WJZ WMAL WREN WSYR

**ED-4:15 p.m., E-3:15, C-2:15, M-1:15**  
**B — Symphonette**  
CFCF CKGW KDKA KOIL KPRC  
KSO KTBS KWCR KWK WBAL  
WBAF WCKY WFLA WHAM WIOD  
WJAX WJZ WMAL WMC WOAI  
WREN WRVA WSB WSM WSMB  
WSYR WWNC

**R — Wildroot—Vee Lawnhurst**  
KDYL KFI KGO KGW KHQ KOA  
KOMO WBEN WCAE WCSH WDAF  
WEAF WEEI WFBR WGY WJAR  
WLIT WMAQ WOW WRC WSAI  
WTAG WTAM WWJ

**ED-4:30 p.m., E-3:30, C-2:30, M-1:30**  
**R — Temple of Song**  
WBEN WCAE WCSH WDAF WFAE  
WEEI WFBR WFI WGY WJAR  
WMAQ WOW WRC WSAI WTAG  
WTAM WWJ

**B — National Youth Conference**  
KDYL KFSD KFJR KGHL KGO  
KGW KHQ KOA KOIL KOMO KPRC  
KSO KSTP KTAR KV00 KWCR  
KWK WAPI WBAL WBZ WBZA  
WDAY WBCB WENR WHAM WIOD  
WIS WJAX WJDX WJZ WMC WOAI  
WPTF WREN WRVA WSB WSM  
WWNC

**ED-5:00 p.m., E-4:00, C-3:00, M-2:00**  
**C — Roses and Drums**  
CKOK KMBC KMOX KRLD WAAB  
WABC WADC WCAO WCCO WDSU  
WGN WGR WHAS WHK WJAS  
WJSV WKRC

**R — Lowell Thomas**  
WBEN WCAE WFAE WEEI WFBR  
WGY WJAR WRC WSAI WTAG  
WTAM WWJ

**B — National Vespers**  
KFSD KFJR KGHL KGO KGW  
KHQ KOA KOIL KOMO KPRC KSO  
KTAR KTBS KWCR KWK WAPI  
WBAL WBAF WBZ WBZA WBCB  
WFLA WGAR WIOD WIS WJAX

WJDX WJZ WOAI WPTF WREN  
WSB WSM WSBM WWNC

**ED-5:15 p.m., E-4:15, C-3:15, M-2:15**  
**R — Sheffler and Gould, Piano Team**  
WBEN WCAE WCSH WFAE WFAE  
WFBR WFI WGY WJAR WMAQ  
WRC WSAI WTAG WTAM WWJ

**ED-5:30 p.m., E-4:30, C-3:30, M-2:30**  
**C — Blue Coal Musical Revue**  
WAAB WABC WCAO WCAU WDRC  
WEAN WFBM WGR WHEC WHF  
WOKO

**B — Pages of Romance, Drama**  
KDKA KOIL KSO KWCR KWK  
KYW WBAL WBZ WBZA WGAR  
WJR WJZ WLW WREN

**R — Swift Garden Program**  
CKGW KSD WBEN WCAE WCSH  
WDAF WFAE WEEI WFBR WFI  
WGY WHO WJAR WMAQ WOC  
WOW WRC WSAI WTAG WTAM  
WWJ

**ED-6:00 p.m., E-5:00, C-4:00, M-3:00**  
**R — Catholic Hour**  
KDYL KEX KFJR KGHL KGIR  
KJR KOA KPRC KSD KTAR KTBS  
KV00 WAPI WBAF WBEN WCAE  
WCKY WCSH WDAF WDAY WFAE  
WFCB WEEI WENR WFBR WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLIT WMC  
WOAI WOC WOW WHC WRVA  
WSAI WSB WSM WSBM WTAG  
WTAM WWJ WWNC

**C — The Lawyer and Public**  
CFRB KFAB KFI KIZ KRLD  
KSCJ KSL KVOR WAAB WABC  
WACO WBCM WBIG WBRC WCAO  
WCCO WDAE WDBJ WDBO WDDO  
WDRC WDSU WEAN WFEA WGST  
WHAS WHP WIBW WICC WISN  
WKBN WLWB WLZB WNAX WNOX  
WODX WOKO WORC WPG WQAM  
WREC WSFA WSJS WSPD WTAQ  
WTAR WTOC WWVA

**ED-6:30 p.m., E-5:30, C-4:30, M-3:30**  
**B — Gordon String Quartet**  
CFCF CKGW KOIL KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WENR WGAR WHAM WJR WJZ  
WLW WMAL WREN WSYR

**C — Cathedral Hour**  
CFRB CKOK KFH KIZ KMBC  
KRLD KSCJ KSL KVOR WAAB  
WABC WADC WBBM WBCM WBIG  
WBRC WBT WCAO WCAU WCCO  
WDAE WDBO WDDO WDRC WDSU  
WFBM WFEA WHEC WIBW WIC  
WISN WJAS WJSV WKBN WKBN  
WKBW WLWB WLZB WNAX WOKO  
WORC WQAM WSBT WSFA WSJS  
WSPD WTAR WTOC WWVA

**R — Our American Schools**  
KDYL KECA KEX KFSD KFJR  
KGA KOA KPO KPRC KSD KSTP  
KTBS KV00 WBAF WBEN WCAE  
WCSH WDAY WFAE WFCB WEEI  
WENR WFBR WFLA WGY WIBA  
WIOD WJAR WKY WLIT WMC  
WOAI WOW WPTF WRC WRVA  
WSAI WSM WSBM WTAG WWJ  
WWNC

**ED-7:00 p.m., E-6:00, C-5:00, M-4:00**  
**B — Borrah Minevitch, Harmonica**  
KDYL KFJR KOA KOIL KPRC KSO  
KTBS KV00 KWK WBAL WCKY  
WDAY WBCB WFLA WIBA WIOD  
WIS WJZ WKY WLS WOAI WREN  
WRVA WSBM WWNC

SUNDAY—(Continued)

C — H. V. Kaltenborn
KFAB KFHL KLZ KMBC KSCJ KSL
KTRH KVOR WABC WACO WBCM
WBIG WBRC WCAO WDAE WDBJ
WDBO WDOD WDRC WDSU WEAN
WFBM WFLA WGST WHAS WHP
WIBW WICF WIP WISN WKBH
WKBW WLWB WLWZ WMT WNAC
WNAX WNOX WOKO WORC WPG
WQAM WRFC WSBT WSFA WSPD
WTAR WTOC WWVA

R — James Melton, Tenor
KDYL KFYR KOA KPRC KSD
KSTP KTRB KVOO WBNB WDAF
WDAY WFAF WIBC WEEL WFBR
WFLA WGY WIBA WIOD WIS
WJAR WMAQ WQAI WRVA WSAI
WSMB WTAG WWJ WWCN

ED-7:15 p.m., E-6:15, C-5:15, M-4:15

C — Fray and Braggiotti
CROK KFAB KFHL KLZ KMBC
KSCJ KSL KTRH KVOR WABC
WACO WADC WBRC WCAH WCAO
WDAE WDBJ WDBO WDOD WDRC
WDSU WEAN WFBL WFBM WFLA
WGST WHAS WHEC WHP WIBW
WISN WJAS WJSV WLWB WLWZ
WMT WNAC WNOX WOKO WORC
WQAM WSFA WSJS WSPD WTAR
WTOC WWVA

ED-7:30 p.m., E-6:30, C-5:30, M-4:30

C — Lon Ross and Russian Troupe
CROK KFAB KFHL KLRA KLZ
KMBC KSCJ KSL KTRH KVOR
WABC WACO WADC WBIG WCAH
WCAO WCCO WDAE WDBJ WDBO
WDOD WDSU WEAN WGR WGST
WHEC WHP WIBW WISN WJAS
WJSV WKBW WLWB WLWZ WMT
WNAC WNAX WNOX WOKO WORC
WQAM WRFC WSBT WSFA WSJS
WSPD WTOC WWVA

R — Joe Moss and Orchestra

WCSH WFAF WJAR WTAG WTIC
B — Great Moments in History
KDKA KDYL KFI KFSD KFYR
KGO KGW KHK KOA KOL KOMO
KPRC KSTP KTAR KYOO KWCR
KWK WBAL WBZ WBAZ WDAY
WEBC WFAA WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJR
WJZ WKY WLS WLW WMC WOAI
WPTF WREN WRVA WSJ WSM
WSMB WTMJ WWCN

ED-7:45 p.m., E-6:45, C-5:45, M-4:45

C — Angelo Patri, Your Child
CROK KMBC KMOX WABC WCAO
WCAU WCCO WFBL WGN WGR
WHAS WHK WJAS WJSV WKRC
WNAC

ED-8:00 p.m., E-7:00, C-6:00, M-5:00

B — Frank Black and Orchestra
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBAZ WCKY WGAR
WJZ WLS WMAL WREN WSYR

R — Chase and Sanborn

CFCF CKGW KDYL KFI KFSD
KFYR KGO KGW KHK KOA KOMO
KPRC KSD KSTP KATR KYOO
WBNB WCAE WCHA WDAF WDAY
WEAF WLBC WFAA WFBW WFLA
WGY WHO WIOD WIS WJAR WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WRB WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWCN

C — John Henry—River Giant
CROK KLRA KLZ KMBC KRLL
KSCJ KSL KTRH KTSA KVOR
WABC WACO WADC WBBM WBCM
WBRC WBT WCAH WCAO WCCO
WDAE WDBJ WDOD WDRC WDSU
WFLB WFBM WFLA WGR WGST
WHEC WHK WHP WISN WJAS
WKHB WLWB WLWZ WNAX WNOX
WOKO WORC WREC WSFA WSJS
WSPD WWVA

ED-8:15 p.m., E-7:15, C-6:15, M-5:15

C — Andre Kostelanetz Presents
CROK KLRA KLZ KMBC KMOX KRLL
KSCJ KSL KTRH KTSA KVOR
WABC WADC WBBM WBCM WBRC
WBT WCAO WCAU WCCO WDAE
WDBO WDOD WDRC WDSU WEAN
WFBM WFLA WGR WHEC WHK
WIBW WISN WJAS WJSV WKBH
WLWB WLWZ WNAX WNOX WOKO
WORC WSBT WSFA WSJS WSPD
WTAR WTOC WWVA

ED-8:45 p.m., E-7:45, C-6:45, M-5:45

C — John Henry—River Giant
CROK KLRA KLZ KMBC KRLL
KSCJ KSL KTRH KTSA KVOR
WABC WADC WBBM WBCM WBRC
WBT WCAH WCAO WCCO WDAE
WDBJ WDOD WDRC WDSU WFLB
WFBM WFLA WGR WGST WHEC
WHK WHP WISN WJAS WKHB
WKBW WLWB WLWZ WNAX WODX
WOKO WORC WREC WSFA WSJS
WSPD

ED-9:00 p.m., E-8:00, C-7:00, M-6:00

R — Manhattan Merry-Go-Round
KSD WDAF WEAF WENR WFBR
WFI WGY WHO WJAR WOC WOW
WRC WSAI WTIC WWJ
B — Warden Lawes—Singing Sing
KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBAZ WGAR
WHAM WJR WJZ WLW WREN
C — The Gauchos
CROK KFAB KFHL KLZ KSCJ KTRH
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAO WDAE WDBO
WDOD WDRC WDSU WEAN WFAN
WFBM WGR WHEC WIBW WICC
WIP WISN WJAS WJSV WKBW
WLWB WLWZ WMBD WNAX WODX
WOKO WPG WQAM WSJS WSPD
WTAR WTOC

ED-9:30 p.m., E-8:30, C-7:30, M-6:30

C — Pennza Parade
CROK KLRA KMBC KMOX KOMA
KTSA WABC WADC WBRC WBT
WCAO WCAU WCCO WDRC WEAN
WFBL WGN WGR WGST WHAS
WHEC WJAS WJSV WKRC WLAC
WLWB WNAC WOKO WSPD

R — Album of Familiar Music

KDYL KFI KGO KGW KHK KOA
KOMO KPRC KSD KSTP KTHS
WAPI WBNB WCAE WCKY WCSH
WEAF WENR WFAA WFBW WFI
WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMC WOAI
WOC WOW WRB WRVA WSAI WSB
WSM WSMB WTAG WTAM WTMJ
WWJ

B — Walter Winchell

KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBAZ WGAR
WHAM WJR WJZ WLW WREN

ED-9:45 p.m., E-8:45, C-7:45, M-6:45

B — Pickens Sisters
CFCF CKGW KDKA KOIL KSO
KWCR KWK KYW WBAL WHAM
WJR WJZ WREN WSYR

ED-10:00 p.m., E-9:00, C-8:00, M-7:00

C — Columbia Revue, See Friday
R — David Lawrence
KDYL KFI KFSD KFYR KGO KGW
KHK KOA KOMO KPRC KSTP
KTBS WBNB WCAE WCKY WCSH
WDAF WDAY WEAF WEBC WEEI
WFBW WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WKY WMC
WOAI WOC WORC WSAI WSM WSMB
WTAG WTAM WTIC WWJ WWCN

ED-10:15 p.m., E-9:15, C-8:15, M-7:15

R — Highlights and Shadows
CKGW KYW WHEN WCAE WCKY
WCSH WDAF WEAF WEBC WFBW
WFLA WGY WIOD WIS WJAR WOV
WRC WSAI WTAG WTAM WWJ
WWCN

B — Vincent Lopez; Pratt-Sherman

KDKA KDYL KFI KGO KGW KHK
KOA KOLL KOMO KPRC KSTP
KTHS KWK WBAL WBAP WBZ
WBZA WGAR WIBA WJDX WJR
WJZ WKY WLW WMAQ WOAI
WREN WSB WSM WSMB WTMJ

ED-10:45 p.m., E-9:45, C-8:45, M-7:45

R — Sunday at Seth Parker's
CFCF CKGW KDYL KFSD KFYR
KGHL KGIR KGO KGW KHK KOA
KPRC KSTP KTAR KTBS KTHS
KIY WAPI WBAP WBNB WCAE
WCKY WCSH WDAF WDAY WEAF
WEBC WEEI WFBW WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWCN

B — Orange Lantern, Mystery Drama

KDKA KSO KWCR KWK WBAL
WGAR WHAM WJZ WREN

ED-11:00 p.m., E-10:00, C-9:00, M-8:00

C — Eddie Duchin and Orchestra
CROK KFAB KFHL KLRA KLZ
KMOX KSCJ KTRH KVOR WAAB
WABC WBCM WBCA WCAO WCAU
WCCO WDAE WDBJ WDBO WDOD
WDRC WDSU WEAN WGST WHK
WHP WIBW WICU WISN WKBW
NLWB WLWZ WMBD WMT WNAC
WNAX WNOX WOKO WPG WQAM
WREC WSBT WSJS WSPD WTAR
WTOC

ED-11:15 p.m., E-10:15, C-9:15, M-8:15

R — Don Hall Trio
KFYR KSTP WCAE WCKY WCSH
WDAF WDAY WEAF WEBC WENR
WFBW WFI WGY WHO WIBA WOC
WRC WSAI WTAG WTIC

B — Walter Winchell

KDYL KFI KGHL KGIR KGO
KGW KHK KOA KOMO KPRC
KTAR KTHS KTHS WAPI WBAP
WJDX WKY WMC WOAI WSB
WSM WSMB

ED-11:30 p.m., E-10:30, C-9:30, M-8:30

B — Archer Gibson, Organist
KDKA KPRC KSO KTBS KWCR
KWK KYW WBAL WBAP WBZ
WBZA WGAR WHAM WIOD WIS
WJAX WJR WJZ WKY WMAL
WREN WSYR WWCN

C — Abe Lyman, See Tuesday

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Daylight Savings*

## CONCERTS

Howard Barlow, 11:00 p.m., daily, ex. Sat. and Sun., C  
Boston Symphony, 8:15 p.m., Saturday, B  
Walberg Brown, 7:00 p.m., daily, ex. Sat. and Sun., R  
Concert Footlights, 7:15 p.m., Thursday, B  
Walter Durosch, 10:00 p.m., Tuesday, R  
Gauches, 9:00 p.m., Sunday, B  
Gilbert and Sullivan Gems, 10:00 p.m., Saturday, B  
Gordon String, 6:30 p.m., Sunday, B  
Grand Opera Miniatures, 9:00 p.m., Monday, C  
Light Opera Gems, 8:00 p.m., Wednesday, C  
Walter Logan, 12:30 p.m., Sunday, B  
New York Philharmonic, 3:00 p.m., Sunday, C  
Orchestral Gems, 11:30 p.m., Sunday, R  
Radio City Symphony, 12:15 p.m., Sunday, B  
String Symphony, 7:30 p.m., Wednesday, B  
Symphonette, 4:15 p.m., Sunday, B  
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R

## DANCE BANDS

Victor Arden, 2:30 p.m., Sunday, C  
Charles Barnett, 7:15 p.m., Saturday, C  
Albert Bartlett, 2:15 p.m., Sunday, C  
Ben Bernie, 9:00 p.m. and 12:30 a.m., Tuesday, R  
Don Bestor, 6:00 p.m., Saturday, B  
Frank Black, 8:00 p.m., Sunday, B; 10:00 p.m., Friday, R  
Jack Denny, 11:30 p.m., Mon. and Thurs.; 11:10 p.m., Saturday, R  
Clyde Doerr, 2:00 p.m., Sunday, R  
Eddie Duchin, 11:00 p.m., Sun.; 12 mid., Wed., C  
Mark Fisher, 12:30 a.m., Wed.; 12 mid., Sat., B  
Joe Green, 2:30 p.m., Sunday, R; 11:00 p.m., Tuesday, B  
Joe Haymes, 12 mid., Tues.; 11:00 p.m., Sat.; 11:30 p.m., Wed., C  
Richard Himer, 6:30 p.m., Monday, R  
Johnny Johnson, 12 mid., Saturday, R  
Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues., R; 9:30 p.m., Thurs., B  
Ted Lewis, 11:30 p.m., Mon. and Thurs., C  
Guy Lombardo, 9:30 p.m., Wednesday, C  
Vincent Lopez, 10:15 p.m., Sun.; 7:45 p.m., Sat., B  
Abe Lyman, 11:30 p.m., Sun., Tues., Fri.; 8:45 p.m., Tues., Wed., Thurs., C  
Dick Mansfield, 6:00 p.m., Wednesday, C  
Dolph Martin, 7:30 p.m., Mon., Wed., Fri., C  
Joe Moss, 7:30 p.m., Sunday, R  
Ozzie Nelson, 6:15 p.m., Thurs.; 7:30 p.m., Sat., C  
George Olsen, 8:00 p.m., Wednesday, R  
Will Osborne, 12 mid., Sunday, R  
Ben Pollock, 12 mid., Sun., Fri., Sat., C  
Sam Robbins, 12:30 a.m., Tues., R; 12:30 a.m., Sat., B  
Willard Robison, 9:30 p.m., Tuesday, B  
B. A. Rolfe, 10:00 p.m., Saturday, R  
Harold Stern, 11:30 p.m., Saturday, R  
Paul Tremaine, 6:15 p.m., Saturday, C  
Rudy Vallee, 8:00 p.m., Thursday, R  
Fred Waring, 10:00 p.m., Wednesday, C

## DIALOG

Amos 'n' Andy, 7 and 11 p.m., daily, ex. Sat. and Sun., B  
Phil Baker, 9:30 p.m., Friday, B  
Jack Benny, 10:00 p.m., Friday, R  
Burns and Allen, 9:30 p.m., Wednesday, C  
Irvin S. Cobb, 9:00 p.m., Wed. and Fri., C  
Phil Cook, 8:45 p.m., Mon. and Wed., B  
Cuekoo, 10:30 p.m., Saturday, B  
Easy Aces, 9:00 p.m., Tues., Thurs., Sat., C  
George Givot, 10:00 p.m., Wednesday, C  
Tom Howard, 9:00 p.m. and 12:30 a.m., Friday, R  
Marx Brothers, 7:30 p.m., Monday, B  
Baron Munchausen, 10:00 p.m., Thursday, R  
Jack Osterman, 2:30 p.m., Sunday, C  
Drs. Pratt and Sherman, 10:15 p.m., Sunday, R  
Reis and Dunn, 6:00 p.m., Mon. and Tues., C  
Stoopnagle and Budk, 9:30 p.m., Thursday, C  
Vic and Sade, 10:15 p.m., Tues., Wed., Thurs., Fri., B

## DRAMA

Octavus R. Cohen Mystery, 7:15 and 11:15 p.m., Mon., Wed., Sat., B  
Death Valley Days, 9:00 p.m., Thursday, B

Eno Crime Clues, 8:00 p.m., Tuesday and Wednesday, B  
First Nighter, 9:00 p.m., Friday, B  
Foreign Legion, 10:00 p.m., Thursday, C  
Fu Manchu Mystery, 8:30 p.m., Monday, C  
Goldbergs, 7:45 p.m., daily, ex. Sat. and Sun., R  
John Henry, 8:00 and 8:45 p.m., Sunday, C  
Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B  
K-7, 9:30 p.m., Monday, R  
Magic Voice, 8:15 p.m., Tuesday and Saturday, C  
Moonshine and Honeyuckle, 1:30 p.m., Sunday, R  
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C  
Northwestern Chronicle, 2:30 p.m., Sunday, B  
Pages of Romance, 5:30 p.m., Sunday, B  
Tin Tin Tin, 8:30 p.m., Thursday, B  
Buck Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C  
Roses and Drums, 5:00 p.m., Sunday, C  
The Shadow, 8:30 p.m., Wednesday, R  
Soconyland Sketches, 8:00 p.m., Monday, R

## PIANO AND ORGAN

Fray and Braggiotti, 7:15 p.m., Sun.; 9:15 p.m., Thurs., C  
Acher Gibson, 11:30 p.m., Sunday, B  
Vee Lawnhurst, 4:15 p.m., Sunday, R  
Josef Lhevinne, 9:30 p.m., Wednesday, R  
Ohman and Arden, 2:30 p.m., Sun., C; 9:30 p.m., Sun., R  
Sheffler and Gould, 5:15 p.m., Sunday, R

## POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R  
Album of Familiar Music, 9:30 p.m., Sunday, R  
Armour Program, 9:30 p.m., Friday, B  
Blue Coal Revue, 5:30 p.m., Sunday, C  
Major Bowes' Family, 11:15 a.m., Sunday, R  
California Melodies, 9:30 p.m., Tuesday, C  
Chase and Sanborn, 8:00 p.m., Sunday, R  
Chevrolet Program, 10:00 p.m., Friday, R  
Cities Service, 8:00 p.m., Friday, R  
Cliqueot Club, 8:00 p.m., Monday, B  
Contented Program, 10:00 p.m., Monday, R  
Corn Cob Pipe Club, 10:00 p.m., Wednesday, R  
Evening in Paris, 9:30 p.m., Monday, C  
Five Star Theatre, 10:00 p.m., Tues., C; 7:30 p.m., Mon. and Fri., B  
Jack Frost's Melody, 9:30 p.m., Monday, B  
Golden Country Club, 10:00 p.m., Monday, C  
Goldman Band, 3:00 p.m., Sunday, B  
Household Musical Memories, 9:00 p.m., Tuesday, B  
Inside Story, 9:30 p.m., Friday, C  
Kaltenmyer's Kindergarten, 8:00 p.m., Saturday, R  
Lucky Strike, 10:00 p.m., Thursday, R  
Manhattan Merry-Go-Round, 9:00 p.m., Sunday, R  
Manhattan Sereaders, 8:15 p.m., Monday, C  
Maxwell House, 9:00 p.m., Thursday, R  
Borrah Minevitch, 7:00 p.m., Sunday, B  
Musical Album, 8:00 p.m., Tuesday, C  
Nestle's Program, 8:00 p.m., Friday, B  
Old Gold, 10:00 p.m., Wednesday, C  
Pennzoil Parade, 9:30 p.m., Sunday, C  
Pond's Program, 9:30 p.m., Friday, R  
Richfield Country Club, 10:30 p.m., Friday, R  
Royal Vagabonds, 8:00 p.m., Wednesday, R  
Lon Ross Russian Troupe, 7:30 p.m., Sunday, C  
Saturday Frivolities, 9:45 p.m., Saturday, C  
Sinclair Minstrels, 9:00 p.m., Monday, B  
Swift's Garden, 5:30 p.m., Sunday, R  
Wildroot Institute, 4:15 p.m., Sunday, R  
Ed Wynn, 9:30 p.m., Tuesday, R

## RELIGIOUS

Dr. S. Parker Cadman, 3:30 p.m., Sunday, R  
Cathedral Hour, 6:30 p.m., Sunday, C  
Catholic Hour, 6:00 p.m., Sunday, R  
Church of the Air, 1:00 p.m., Sunday, C  
Mid-Week Hymn Sing, 6:30 p.m., Tuesday, R  
National Vespers, 5:00 p.m., Sunday, B  
National Youth Conference, 4:30 p.m., Sunday, B  
Seth Parker's, 10:45 p.m., Sunday, R  
Pilgrims, 2:15 p.m., Sunday, R  
Salt Lake Choir, 12 noon, Sunday, C

## SINGERS

Countess Olga Albani, 6:45 p.m., Mon. and Thurs., R  
 Frances Alda, 6:00 p.m., Tuesday, R  
 Elvia Allman, 7:30 p.m., Mon., Wed. and Sat., R  
 ety Barthell, 10:00 p.m., Mon.; 6:15 p.m., Tues.; 8:00  
 p.m., Fri., C; 10:30 p.m., Fri., R  
 Boswell Sisters, 10:30 p.m., Thurs.; 9:15 p.m., Sat., C  
 Fanny Brice, 8:00 p.m., Wednesday, R  
 Buccaneers, 11:00 p.m., Saturday, B  
 Charles Carille, 10:45 p.m., Tues. and Thurs., C  
 Do Re Mi, 8:00 p.m., Thurs.; 6:00 p.m., Fri., C  
 Jessica Dragonette, 8:00 p.m., Friday, R  
 Mary Eastman, 9:00 p.m., Mon.; 8:15 p.m., Sun., C  
 Evan Evans, 8:00 p.m., Thursday, C  
 Fields and McHugh, 10:00 p.m., Friday, B  
 Don Hall Trio, 11:15 p.m., Sunday, R  
 Irving Kaufman, 8:45 p.m., Tues., Wed., Thurs., C  
 Keller, Sargent and Ross, 7:30 p.m., Tues. and Thurs., C  
 Jeannine Lang, 9:30 p.m., Thurs., C; 9:00 p.m., Friday, R  
 Lazy Dan, 1:30 p.m., Sunday, C  
 Welcome Lewis, 11:15 p.m., Friday, B  
 Little Jack Little, 10:45 p.m., Wed. and Fri., C  
 Nino Martino, 11:00 p.m., Wednesday and Friday, C  
 Smiling Ed McConnell, 2:00 p.m., Sunday, C  
 Tommy McLaughlin, 9:15 p.m., Tuesday, C  
 James Melton, 7:00 p.m., Sun.; 6:45 p.m., Tues.; 11:00 p.m.,  
 Thurs.; 10:00 p.m., Fri., R  
 Monarch Mystery Tenor, 2:00 p.m., Sunday, B  
 Frank Munn, 9:30 p.m., Sunday, R  
 Gertrude Niesen, 6:30 p.m., Thurs.; 10:45 p.m., Sat., C  
 Donald Novis, 9:30 p.m., Wednesday, B  
 William O'Neal, 10:45 p.m., Monday, C  
 Pickens Sisters, 9:45 p.m., Sunday, B  
 Mae Questel, 6:30 p.m., Friday, R  
 Revelers, 8:00 p.m., Sunday, B  
 Carson Robison, 8:30 p.m., Friday, C  
 Lanny Ross, 9:00 p.m., Thursday, R  
 Romantic Bachelor, 9:15 p.m., Wednesday, C  
 Sanderson-Crumit, 8:00 p.m., Tuesday, R  
 Singin' Sam, 8:00 p.m., Monday, C

Sixteen Male Voices, 11:30 p.m., Wednesday, B  
 Kate Smith, 8:30 p.m., Tues., Wed., Thurs., C  
 Southern Singers, 6:45 p.m., Sat., R; 11:00 p.m., Mon.,  
 Thurs.; 8:45 p.m., Tuesday, B  
 Southernaires, 11:00 p.m., Tuesday, R  
 Street Singer, 12:45 p.m., Sunday; 7:45 p.m., Sat.; 10:30  
 p.m., Fri., C  
 Tastyest Jesters, 8:30 p.m., Wednesday, B  
 Three Keys, 6:30 p.m., Thursday, R  
 Three X Sisters, 6:30 p.m., Mon., Wed., Fri., B  
 Ranny Weeks, 8:45 p.m., Mon.; 9:00 p.m., Wed. and Sat., R  
 Women's Octet, 11:15 p.m., Tuesday, B

## TALKS

America's Grub Street, 6:00 p.m., Saturday, C  
 American Taxpayers' League, 7:00 p.m., Saturday, B  
 Boake Carter, 7:45 p.m., daily, ex. Sat. and Sun., C  
 Cook Travelogues, 1:15 p.m., Sunday, B  
 Jack Dempsey, 6:30 p.m., Mon., Tues., Wed., C  
 William Hard, 6:30 p.m., Wednesday, R  
 Edwin C. Hill, 10:30 p.m., Mon., Tues., Wed.; 9:30 p.m.,  
 Fri., C  
 Horlick's Health, 8:30 p.m., Tues. and Fri., B  
 H. V. Kaltenborn, 7:00 p.m., Sunday; 6:00 p.m., Thurs., C  
 Warden Lawes, 9:00 p.m., Sunday, B  
 David Lawrence, 10:00 p.m., Sunday, R  
 Laws That Safeguard, 6:30 p.m., Saturday, B  
 Lawyer and Public, 6:00 p.m., Sunday, C  
 Alex Morrison on Golf, 10:00 p.m., Mon., C; 10:30 p.m.,  
 Fri., R  
 National Radio Forum, 10:30 p.m., Monday, R  
 Angelo Patri, 7:45 and 11:15 p.m., Sunday, C  
 Sigmund Spaeth, 10:00 p.m., Tuesday, B  
 Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B;  
 5:00 p.m., Sunday, R  
 Merle Thorpe, 7:15 p.m., Saturday, B  
 Howard Thurston, 8:45 p.m., Thurs. and Fri., B  
 Carveth Wells, 10:30 p.m., Wednesday, R  
 Frederic William Wile, 7:00 p.m., Saturday, C  
 Walter Winchell, 9:30 and 11:15 p.m., Sunday, B

## IMPORTANT NOTICE

*Too late for us to make the changes in this issue, the Canadian Radio Commission is making what may be wholesale shifts of frequencies among the stations in Eastern Canada. CFCY is moved from 580 to 630; CHCK from 960 to 1310; CNRO from 600 to 880; and CKCO from 890 to 1010. There are probably a number of other changes most of which will go into effect on April 16th.*

## THE MONTH'S CHANGES

### POWER

680 CMAF Havana, Cuba, 500 to 1000  
 750 VOVR St. John's, Nfld., 750 to 500  
 810 VOAS St. John's, Nfld., 200 to 75  
 855 XEFD Tijuana, Mex., 300 to 2500  
 880 KLLX Oakland, Calif., 500 to 1000  
 890 VOGY St. John's, Nfld., 500 to 100  
 CMX Havana, Cuba, 500 to 750  
 900 WLBL Stevens Point, Wis., 2000 to  
 2500  
 1150 WHAM Rochester, N. Y., 5000 to 25000  
 1190 WSAZ Huntington, W. Va., 250 to 500  
 1195 VONF St. John's, Nfld., 500 to 100  
 1430 WBAK Harrisburg, Pa., 500 to 1000

### FREQUENCY

600 CMV Havana, Cuba, from 590  
 855 XEFD Tijuana, Mex., from 1020  
 890 VOGY St. John's, Nfld., from 860  
 010 CPCH No. Bay, Ont., from 930  
 930 CKPC Preston, Ont., from 880  
 1120 CHLP Montreal, Que., from 1200  
 1190 WSAZ Huntington, W. Va., from 580  
 1290 XFB Jalapa, Mex., from 840

### DELETED

588 CMDD Havana, Cuba  
 893 VOGT Wabana, Nfld.  
 925 CMDE Havana, Cuba  
 950 VONA St. John's, Nfld.  
 965 CMAY Havana, Cuba  
 1000 XETC Jalapa, Mex.  
 1010 CMCX Havana, Cuba  
 1325 CMFB Havana, Cuba  
 1360 XEFD Mexico City, Mex.  
 1450 WNJ Newark, N. J.

### CALLS

1200 WBBX New Orleans, La., from WABZ  
 1280 WTNJ Trenton, N. J., from WOAX

### NEW

1300 VOKW St. John's, Nfld.

### OWNERS

710 KMPC Beverly Hills, Cal., to Beverly  
 Hills Broadcasting Corp.  
 1310 KGCX Wolf Point, Mont., to E. E.  
 Krebsbach  
 1370 WLEY Lexington, Mass., to Albert S.  
 Moffat

## INDEX BY FREQUENCIES AND DIAL NUMBERS

This Index will not appear again in its present form and readers are urged to preserve this list. It will prove a great aid in identifying stations heard. Night power in watts in second column. Odd frequencies shown in parenthesis.

### 540 kilocycles 555.2 meters

CKOK	500	Essex Broadcasters, Ltd., Guaranty Trust Bldg., Windsor, Ont. "The International Station."			
XEY	105	Partido Socialista del Sureste, Merida, Yucatan, Mex. (546.8)			

### 550 kilocycles 545.1 meters

KFDY	1000	South Dakota State College, Brookings, S. Dak.			
KFUO	1000	Evangelical Lutheran Church, Missouri Synod, 801 DeMun St., St. Louis, Mo. "The Gospel Voice" (Concordia Theological Seminary.)			
KEYR	1000	Meyer Broadcasting Co., 320 Broadway, Bismarck, N. Dak. (NBC)			
KOAC	1000	Oregon State Agricultural College, Corvallis, Ore.			
KSD	500	Pulitzer Publishing Co., 12th and Olive Sts., St. Louis, Mo. (Red)			
WDEV	500	Harry C. Whitehill, 8 Stowe St., Waterbury, Vermont. "Waterbury Delights Every Visitor" (Waterbury Record) NNRC tips.			
WGR	1000	Buffalo Broadcasting Corp., Rand Bldg., Buffalo, N. Y. (CBS)			
WKRC	1000	WKRC, Inc., Hotel Alms, Cincinnati, Ohio. (CBS)			

### 560 kilocycles 535.4 meters

KFDM	500	Sabine Broadcasting Co., Inc., Beaumont Hotel, Beaumont, Tex. "The Voice of the Sabine District."			
KLZ	1000	The Reynolds Radio Co., Inc., Shirley-Savoy Hotel, Denver, Colo. "Pioneer of the West." (CBS)			
KTAB	1000	Associated Broadcasters, Inc., Fifth and Mission Sts., San Francisco, Calif. "At the Top of the Dial" (On the Pickwick Hotel)			
WFI	500	WFI Broadcasting Co., 801 Market St., Philadelphia, Pa. (Red)			
WIBO	1000	Nelson Bros. Bond & Mortgage Co., 134 N. LaSalle St., Chicago, Ill. "At the Top of the Dial."			
WLIT	500	Lit Bros. Broadcasting System, Inc., Market at 8th St., Philadelphia, Pa. (Red)			
WNOX	1000	WNOX Inc., Andrew Johnson Hotel, Knoxville, Tenn. "The Gateway of the Great Smokies." (CBS)			
WPCC	500	North Shore Congregational Church, 1011 Wilson Ave., Chicago, Ill. "We Preach Christ Crucified; We Proclaim Christ's Coming; We Praise Christ Continually."			
WQAM	1000	Miami Broadcasting Co., 325 North East First Ave., Miami, Fla. "The Voice of Tropical America." (CBS)			
XEAO	7.5	Luis L. Castro, Mexicali, B. C., Mexico.			

### 570 kilocycles 526.0 meters

HIX	1000	The Dominican Government, 27 de Febrero, Santo Domingo, Dominican Republic. (579)			
KGKO	250	Wichita Falls Broadcasting Co., Cor. 9th St. and Indiana Ave., Wichita Falls, Texas.			
KMTR	500	KMTR Radio Corp., 915 N. Formosa St., Hollywood, Calif. (United Artists Theatre)			
KVI	500	Puget Sound Broadcasting Co., Inc., Tacoma Hotel, Tacoma, Wash. (CBS)			
WEAO	1000	Ohio State University, North High Street, Columbus, Ohio.			
WKBN	500	WKBN Broadcasting Corp., Y. M. C. A. Building, Youngstown, Ohio. (CBS)			
WMCA	500	Knickerbocker Broadcasting Co., Inc., 1697 Broadway, New York, N. Y.			
WNAX	1000	The House of Gurney, Inc., Second and Capitol Sts., Yankton, S. D. (CBS)			
WNYC	500	City of New York, Dept. of Plants and Structures, Centre and Duane Sts., New York, N. Y. "Municipal Broadcasting Station." (On Municipal Building)			
WSYR	250	Central New York Broadcasting Corp., East Onondaga and S. Warren Sts., Syracuse, N. Y. (Hotel Syracuse). (Blue)			
WWNC	1000	Citizens Broadcasting Co., Inc., 815 Flatiron Bldg., Asheville, N. C. "WWNC Broadcasting from the Land of the Sky." (NBC)			

### 580 kilocycles 516.9 meters

CFCY	500	Island Radio Broadcasting Co., Ltd., 143 Great George St., Charlottetown, P. E. I. "The Voice of the Maritimes." (On Canadian National Hotel)			
CHMA	250	Christian and Missionary Alliance, 98th St. and 107th Ave., Edmonton, Alberta.			
CKCL	500	The Dominion Battery Co., 104 University Ave., Toronto, Ontario.			
CKUA	500	University of Alberta, Edmonton, Alberta. (Studio in Extension Dept. Building)			



## INDEX BY FREQUENCIES AND DIAL NUMBERS

CMW	1400	Troncoso y Gil, Paseo de Marti, 103, Havana, Cuba. "The Voice of the Antilles."
KMJ	500	McClatchy Radio Stations, Van Ness and Calveras Sts., Fresno, Calif. (Fresno Bee). (CBS)
KSAC	500	Kansas State College of Agriculture and Applied Science, Nichols Gymnasium, Manhattan, Kans. "This is the Voice of Kansas State."
WDBO	250	Orlando Broadcasting Co., Inc., 555 N. Orange Ave., Orlando, Fla. "The Voice of Central Florida." (Fort Gatlin Bldg.) (CBS)
WIBW	1000	Topeka Broadcasting Assn., Inc., 1100 National Reserve Bldg., Topeka, Kans. (CBS)
WOBU	250	WOBU, Inc., Hotel Ruffner, Charleston, W. Va.
WTAG	250	The Worcester Telegram Publishing Co., Inc., 20 Franklin St., Worcester, Mass. "The Worcester Telegram and Evening Gazette." NNRC tips. (Red)
XEPN	100000	Cia Radiodifusora de Pedras Negras S. A., Pedras Negras, Coah., Mexico. (Mail address: Yolanda Hotel, Eagle Pass, Texas). (585).

### 590 kilocycles 508.2 meters

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CJGC	5000	London Free Press Printing Co., Ltd., Richmond St., London, Ont. (595)
KJIO	1000	Louis Wasmer, Inc., Sprague Ave. and Post St., Spokane, Wash. (NBC)
WCAJ	500	Nebraska Wesleyan University, 50th and St. Paul Sts., Lincoln, Neb.
WEEI	1000	The Edison Electric Illuminating Co. of Boston, 182 Tremont St., Boston, Mass. "The Friendly Voice." (Red)
WKZO	1000	WKZO, Inc., 301-302 Peck Bldg., Kalamazoo, Mich. "Voice of Southwestern Michigan." (On the Burdick Hotel)
WOW	1000	Woodmen of the World Life Insurance Assn., 14th and Farnam Sts., Omaha, Neb. (Red)

### 600 kilocycles 499.7 meters

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CNRO	500	Canadian National Railways, Chateau Laurier Hotel, Ottawa, Ont. "CNRO in Ottawa, the Capital of Canada."
KFSD	1000	Airfan Radio Corp., 326 Broadway, San Diego, Calif. (On the U. S. Grant Hotel). (NBC)
WCAC	250	Connecticut Agricultural College, Storrs, Conn.
WCAO	250	The Monumental Radio Co., 811 W. Lanvale St., Baltimore, Md. "The Voice of Baltimore." (CBS)
WICC	250	Bridgeport Broadcasting Station, Inc., Hotel Garde, New Haven, Conn. (CBS). (Also Stratfield Hotel, Bridgeport, Conn.)
WMT	500	Waterloo Broadcasting Co., 3rd and Lafayette Sts., Waterloo, Iowa. "The Voice of Iowa." (CBS)
WREC	500	WREC, Inc., Peabody Hotel, Memphis, Tenn. (CBS)

### 610 kilocycles 491.5 meters

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KFRC	1000	Don Lee Broadcasting System, Inc., 1000 Van Ness Ave., San Francisco, Calif. (CBS)
KZRM	50000	Erlanger & Galinger, Inc., 601 Escolta, Manila, P. I. "This is KZRM, Radio Manila." (Atop Insular Life Bldg.) (618.5)
WDAF	1000	The Kansas City Star Co., 1729 Grand Ave., Kansas City, Mo. (On the Star Building). (Red)
WIP	500	Pennsylvania Broadcasting Co., 8th and Market Sts., Philadelphia, Pa. "Philadelphia's Pioneer Voice." (CBS)
WJAY	500	Cleveland Radio Broadcasting Corp., Starr Piano Bldg., Cleveland, Ohio.
XÉTR	1000	Cia Difusora Mexicana S. A., Mexico City, Mexico.

### 620 kilocycles 483.6 meters

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KGW	1000	Oregonian Publishing Co., 325 Alder St., Portland, Ore. (NBC)
KTAR	500	KTAR Broadcasting Co., 116 N. Central Ave., Phoenix, Ariz. "Atop the Heard Building." (NBC)
WFLA	1000	Florida Westcoast Broadcasting Co., Inc., Chamber of Commerce Bldg., Clearwater, Fla. "WFLA, Where It's Springtime." (Also Hillsboro Hotel, Tampa, Fla.) (NBC)
WLBZ	500	Maine Broadcasting Co., Inc., 100 Main St., Bangor, Maine. "The Maine Station from Maine People." (CBS)
WSUN	1000	The Chamber of Commerce, St. Petersburg, Fla. "The Sunshine City." (Same as WFLA). (NBC)
WTMJ	1000	The Journal Co., 333 West State St., Milwaukee, Wis. (NBC)

### 630 kilocycles 475.9 meters

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CFCT	500	Victoria Broadcasting Assn., Union Bldg., 612 View St., Victoria, B. C. "The Canadian Radio Station Farthest West." (On the Bank of Toronto Bldg.)
CJGX	500	Winnipeg Grain Exchange, 188 Grain Exchange Bldg., Winnipeg, Man. (Station located in Yorkton, Sask.)

## INDEX BY FREQUENCIES AND DIAL NUMBERS

CKOC	1000	Wentworth Radio Broadcasting Co., Ltd., Royal Connaught Hotel, Hamilton, Ont. "The Voice of Hamilton." (635).
CKTB	1000	Wentworth Radio Broadcasting Co., Ltd., Welland House, St. Catharines, Ont. "The Garden City Station." (635).
CMCU	150	Jorge Garcia Serra, San Francisco No. 13, Vibora, Havana, Cuba.
CMQ	250	Jose Fernandez, 25 Numero 445, Vedado, Havana, Cuba.
CNRA	700	Canadian National Railways, Moncton, N. B.
KFRU	500	KFRU, Inc., Columbia, Mo. "The Heart of Missouri."
KGFX	200	Dana McNeil, 510 Summit Ave., Pierre, S. D.
WGBF	500	Evansville On the Air, Inc., 618½ Main St., Evansville, Ind. "The Voice of the Tri-States."
WMAL	250	National Broadcasting Co., Lessee, 712 Eleventh St., N. W., Washington, D. C. (Blue).
WOS	500	State Marketing Bureau of Missouri Board of Agriculture, Jefferson City, Mo.
XETF	500	Manuel Angel Fernandez, Independencia St., Veracruz, Mex. "La Voz de Veracruz, El Primer Puerto de Mexico."
XFG	2000	Secretaria de Guerra y Marina, Mexico City, Mexico. (638.3).

### 640 kilocycles 468.5 meters

CHRC	100	CHRC, Ltd., Victoria Hotel, Quebec, Que. (645).
CKKI	100	Le "Soleil" Ltd., Quebec, Que. (645).
CKCR	100	Mitchell & Liddle, K. W. Broadcasting Co., 24 King St., South, Waterloo, Ont. "Voice of the Twin Cities." (On the Walper House). (645).
KFI	50000	Earle C. Anthony, Inc., 1000 So. Hope St., Los Angeles, Calif. "E. C. A. Inc. Distributor of Packard and Hudson-Essex Motor Cars for California." (NBC).
WAUI	500	Associated Radiocasting Corp., Deshler-Wallick Hotel, Columbus, Ohio. "The Voice of Ohio." (On the A. I. O. Citadel).
WOI	5000	Iowa State College, State College of Agriculture, Ames, Iowa.

### 650 kilocycles 461.3 meters

KPCB	100	Queen City Broadcasting Co., Tower Bldg., 3rd and Pine Sts., Seattle, Wash.
WSM	50000	The National Life & Accident Insurance Co., Inc., 301 Seventh Ave. No., Nashville, Tenn. "We Shield Millions." (NBC).

### 660 kilocycles 454.3 meters

CHWK	100	Chilliwack Broadcasting Co., Ltd., Wellington Ave., Chilliwack, B. C. "The Voice of Fraser Valley." (665).
CJRM	500	James Richardson & Sons, Ltd., Moose Jaw, Sask. (665).
CJRW	1000	James Richardson & Sons, Ltd., Royal Alexandra Hotel, Winnipeg, Man. (Station in Fleming, Sask.) (665).
RUS	500	Republic of El Salvador, Direccion General de Correos y Telegraphos, San Salvador, C. A. (664).
WAAW	500	The Omaha Grain Exchange, 19th and Harney Sts., Omaha, Neb. "The Pioneer Farm Market Station of the West."
WEAF	50000	National Broadcasting Co., Inc., 711 Fifth Ave., New York, N. Y. (Red).
XEM	500000	Gumaro Lizarraga, Matamoros, Tams., Mexico.

### 670 kilocycles 447.5 meters

WMAQ	5000	WMAQ, Inc., Op. by N. B. C., Merchandise Mart, 222 N. Bank Drive, Chicago, Ill. "Chicago Daily News Broadcasting Station." (NBC).
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### 680 kilocycles 440.9 meters

CMAF	1000	International Broadcasting Co., Primera y 8, Reparto Miramar, Havana, Cuba. (P. O. Box 66).
HJN	2000	Government of Columbia, Bogota, Colombia. (685).
KFEQ	2500	Scroggin & Co. Bank, Robidoux Hotel, St. Joseph, Mo.
KPO	5000	National Broadcasting Co., Inc., 111 Sutter St., San Francisco, Calif. (NBC).
VAS	2000	The Canadian Marconi Co., Glace Bay, N. S. "The Voice of the Atlantic Seaboard." (685).
WPTF	1000	The Durham Life Insurance Co., 324 Fayetteville St., Raleigh, N. C. "We Protect The Family." (On Sir Walter Hotel). (NBC).

### 690 kilocycles 434.5 meters

CFAC	500	Calgary Herald, Ltd., Herald Bldg., Calgary, Alta.
CFRB	10000	Rogers-Majestic Corp., Op. by Canadian Radio Corp., 37 Bloor St. West, Toronto, Ont. "The Rogers Batteryless Station, CFRB, Toronto." (CBS).
CJJC	500	The Albertan Publishing Co., Ltd., 9th Ave. and 2nd St. West, Calgary, Alta.
NAA	1000	The United States Navy, Arlington, Va. (Time Signals).
XET	500	Cadena Radiodifusora, Mexicana, S. A., P. O. Box 203, Hidalgo, Monterrey, N. L., Mexico. (Hotel Aneiro).

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### 700 kilocycles 428.3 meters

WLW 5000 Crosley Radio Corp., 1329 Arlington St., Cincinnati, Ohio. "The Nation's Station." (NBC).

### 710 kilocycles 422.3 meters

KMPC 500 Beverley Hills Broadcasting Corp., 9631 Wiltshire Blvd., Beverley Hills, Calif.  
 WOR 5000 Bamberger Broadcasting Service, Inc., 147 Market St., Newark, N. J.  
 XEN 1000 Cerveceria Modelo, S. A., Op. by Fernando Ortiz Monesterio, Avenida Juarez 77, Mexico City, Mexico. (711). "Radiomundial, The Voice of Mexico." (On the Regis Hotel).

### 720 kilocycles 416.4 meters

WGN 25000 WGN, Inc., Room 1117 Tribune Tower, Chicago, Ill. "The World's Greatest Newspaper." (On the Drake Hotel). (CBS).

### 730 kilocycles 410.7 meters

CHLS 100 W. G. Hassell, Victory Square, Vancouver, B. C. (Province Bldg.)  
 CHYC 5000 Northern Electric Co., Ltd., Montreal, Que.  
 CKAC 5000 LaPresse Publishing Co., Ltd., 980 St. Catherine St., W., Montreal, Que. (CBS).  
 CKCD 100 Vancouver Daily Province, Vancouver, B. C.  
 CKFC 50 United Church of Canada, 12th Ave. and Hemlock St., Vancouver, B. C. (Op. by Radio Service Engineers, Ltd., 734 Davie St.)  
 CKMO 100 Spratt-Shaw Radio Co., Room 1604, Bekins Bldg., Vancouver, B. C.  
 CKWX 100 Western Broadcasting Co., Ltd., 801 W. Georgia St., Vancouver, B. C. (Hotel Georgia).  
 CMK 3150 National Broadcasting Co. of Cuba, Senargura No. 1, Havana, Cuba. (On the Hotel Plaza).  
 XEF-XER 75000 Villa Acuna Broadcasting Co., Inc., Apartado Postal Numero 30, Villa Acuna, Coah., Mexico. (Mail address: P. O. Box 1083, Del Rio, Texas). "The Sunshine Station Between the Nations." (735).

### 740 kilocycles 405.2 meters

CJCA 500 Edmonton Journal, Ltd., 10122 A. St., Edmonton, Alta. "This is CJCA with studios in the McGee Bldg., Edmonton." (745).  
 KMMJ 1000 M. M. Johnson Co., Clay Center, Neb. "The Old Trusty Station." (Has remote control from Lincoln).  
 WSB 5000 The Atlanta Journal, Biltmore Hotel, Atlanta, Ga. "The Voice of the South." (NBC).  
 WHEB 250 Granite State Broadcasting Corp., 39 Congress St., P. O. Box 213, Portsmouth, N. H.

### 750 kilocycles 399.8 meters

KGU 2500 The Advertiser Publishing Co., Kapiolani Blvd. at South St., Honolulu, Hawaii. "The Voice of Hawaii." (NBC).  
 VOWR 500 Wesley United Church, P. O. Box 157, St. John's, Nfld. "We Serve."  
 WJR 10000 WJR, The Goodwill Station, Inc., 2800 Fisher Bldg., Detroit, Mich. "The Goodwill Station." (On the Fisher Bldg.) (Blue).  
 XEAN 5000 Radiodifusora Nacional, S. A., Hotel Rio Bravo, Juarez, Chih., Mexico. (Mail address: 1222 Mills Bldg., El Paso, Texas). "The Voice of Mexico."

### 760 kilocycles 394.5 meters

KXA 250 American Radio Tel. Co., 218 Bigelow Bldg., Seattle, Wash.  
 WBAL 10000 (See 1060 kcys.) Uses 760 kcys. for blue programs in synchronization with WJZ).  
 WEW 1000 St. Louis University, 221 N. Grand Blvd., St. Louis, Mo.  
 WJZ 50000 National Broadcasting Co., Inc., 711 Fifth Ave., New York, N. Y. (Blue).

### 770 kilocycles 389.4 meters

KFAB 5000 KFAB Broadcasting Co., 13th and M. Sts., Lincoln, Neb. (On the Hotel Cornhusker). (CBS).  
 WBBM 25000 WBBM Broadcasting Corp., Wrigley Bldg., Chicago, Ill. (CBS).

### 780 kilocycles 384.4 meters

CKY 5000 Manitoba Telephone System, Sherbrooke St., Winnipeg, Man.  
 CMBS 150 Enrique Artalejo, Calzada y H. St., Vedado, Havana, Cuba.  
 CMCQ 1000 Andres Martinez, Vista Alegre No. 80, Vibora, Havana, Cuba.

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KELW	500	Magnolia Park, Ltd., 3702 Magnolia Park Blvd., Burbank, Calif. "Voice of the San Fernando Valley."
KTM	500	Pickwick Broadcasting Corp., Ltd., 214 S. Vermont Ave., Los Angeles, Calif. (Rainbow Gardens Ballroom).
WEAN	500	Shepard Broadcasting Service, Inc., Crown Hotel, Providence, R. I. (CBS).
WMC	500	Memphis Commercial Appeal, Inc., Hotel Gayoso, Memphis, Tenn. "Down in Dixie." (NBC).
WPOR	500	WTAR Radio Corp., Wainwright Bldg., Norfolk, Va. (WPOR is used when broadcasting from Portsmouth, Va.)
WTAR	500	WTAR Radio Corp., Wainwright Bldg., Norfolk, Va. (CBS).
XEP	1000	Cia Difusora de Mexico, S. A., Mexico City, Mexico.

### 790 kilocycles 379.5 meters

CMHC	250	Frank H. Jones, Tuinucu, Cuba.
CMJK	300	Compania Cubana Nacional de Radio, S. A., Apartado 320, Camaguey, Cuba "LaVoz de 'El Camagueyano'."
KGO	7500	General Electric Co., Op. by NBC, 111 Sutter St., San Francisco, Calif. (NBC).
WGY	50000	General Electric Co., 1 River Road, Schenectady, N. Y. (Studios in the DeWitt Clinton Hotel, Albany, N. Y.) (Red).

### 800 kilocycles 374.8 meters

WBAP	50000	Carter Publications, Inc., 400 West 7th St., Fort Worth, Tex. (On the Blackstone Hotel). Rings Cowbell signing off and on. (NBC).
WFAA	50000	The Dallas News-Dallas Journal, Baker Hotel, Dallas, Texas. (NBC).

### 810 kilocycles 370.2 meters

CHNS	500	Halifax Herald, Op. by Maritime Broadcasting Co., Ltd., P. O. Box 998, Halifax, N. S. "The Key Station of the Maritime." (Lord Nelson Hotel). (815).
CNRH	500	Canadian National Railways, Halifax, N. S. (On the Nova Scotian Hotel). (815).
VOAS	75	Ayre & Sons, Ltd., Water St., St. John's, Nfld. "Voice of Ayre & Sons."
WCCO	50000	Northwestern Broadcasting, Inc., Nicollet Hotel, Minneapolis, Minn. (Also Hotel Lowry, St. Paul). "Service to the Northwest." (CBS).
WPCH	500	Eastern Broadcasters, Inc., 1697 Broadway, New York, N. Y. (On WMCA Bldg.)
XFC	350	Gobierno del Estado de Aguascalientes, Aguascalientes, Ags., Mexico.
XFI	1000	Secretaria de Industro Comercio y Trabajo, Mexico City, Mexico. (818).

### 820 kilocycles 365.6 meters

CMGC	30	Oscar S. Mechoso, Independencia No. 56, Matanzas, Cuba.
WHAS	25000	Louisville Times Co., Inc., 300 W. Liberty St., Louisville, Ky. (CBS).

### 830 kilocycles 361.2 meters

CMGA	100	L. Valdes Figueroa, Marti No. 19, Colon, Cuba. (834).
KOA	12500	General Electric Co., Managed by N. B. C., 1370 Krameria St., Denver, Colo. (NBC).
WEEU	1000	Berks Broadcasting Co., 533 Penn St., Reading, Pa.
WHDH	1000	Matheson Radio Co., Inc., 296 Huntington Ave., Boston, Mass. "The Voice from Home."
WRUF	5000	State of Florida, University of Florida, Gainesville, Fla. "The Voice Florida." "State and University Radio Station." (CBS).
XETW	500	Rafael M. Pena, Mexico City, Mexico.

### 840 kilocycles 356.9 meters

CHNC	5000	Canadian National Carbon Co., Ltd., Toronto, Ont.
CKGW	5000	Gooderham & Worts, Ltd., King Edward Hotel, Toronto, Ont. "Canada's Cheerio Station." (NBC).
CKLC	1000	Alberta Broadcasting Co., Rennew Bldg., Calgary, Alberta. (Station at Red Deer, Alta.)
CMC	500	Cuban Telephone Co., "Aguila y Dragones, Havana, Cuba.
CPRY	5000	Canadian Pacific Co., Royal York Hotel, Toronto, Ont.
XETH	100	Ramon Huerta, Puebla, Mexico.
XETM	150000	Miguel Muzquiz, Matamoros, Tams., Mexico. (845).

### 850 kilocycles 352.7 meters

KIEV	100	Cannon Systems, Inc., Glendale, Calif.
KWKH	10000	Hello World Broadcasting Corp., Spring and Fannin Sts., Shreveport, La. "Voice of the People."
WWL	10000	Loyola University, Op. by WWL Development Co., Montileone Hotel, New Orleans, La.
XEFD	300	Carlos de la Sierra, Tiajuana, B. C., Mexico. (855).

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860 kilocycles 348.6 meters

WABC	50000	Atlantic Broadcasting Corp., 485 Madison Ave., New York, N. Y. (Uses call WBOQ for tests). (CBS).
WHB	500	WHB Broadcasting Co., 12th floor Scarritt Bldg., 9th and Grand Sts., Kansas City, Mo.
XFX	500	Secretaria de Educacion Publica, Mexico City, Mexico.

870 kilocycles 344.6 meters

WENR	50000	Great Lakes Broadcasting Co., Managed by N. B. C., 222 No. Bank Drive, Chicago, Ill. "The Voice of Service." (NBC).
WLS	50000	Agricultural Broadcasting Co., 1230 W. Washington Blvd., Chicago, Ill. "The Prairie Farmer Station." (NBC).
XEAD	250	Julio Zetina Osorio, Mexico City, Mexico. (875).

880 kilocycles 340.7 meters

CHML	50	Maple Leaf Radio Co., Ltd., 36 James So., Hamilton, Ont. (On the Pegott Bldg.)
CJCB	100	Nathanson Radio Headquarters, 318 Charlotte St., Sydney, N. S.
CKCV	100	Vandry, Inc., 252 Avenue Marguerite—Bourgeois, Quebec, Que. "The Voice of French Canada."
KFKA	500	Midwestern Radio Corp., P. O. Box 735, Greeley, Colo. (On the McCreery Bldg.)
KLX	1000	The Tribune Publishing Co., 13th and Franklin Sts., Oakland, Calif. "Where Rail and Water Meet."
KPOF	500	Pillar Of Fire, 1845 Champa St., Denver, Colo. (Bellevue College and Pillar of Fire Memorial Hall) "And the Lord Went Before Them in the Pillar of Fire to Give Them Light."
WCOC	500	Mississippi Broadcasting Co., Inc., First National Bank Bldg., Meridian, Miss. "Down in the Old Magnolia State."
WGBI	250	Scranton Broadcasters, Inc., 116 No. Washington Ave., Scranton, Pa.
WQAN	250	Scranton Times, 149 Penn Ave., Scranton, Pa. "Voice of Anthracite."
WSUI	500	State University of Iowa, Iowa City, Iowa.

890 kilocycles 336.9 meters

CFBO	500	C. A. Munro, Ltd., Canterbury St., St. John, N. B.
CKCO	100	Dr. G. M. Geldert, 272 Somerset St., West, Ottawa, Ont.
CKPR	100	Radio Station CKPR, Fort William, Ont. (Royal Edward Hotel). (Dougalt Motor Car Co., Ltd., Owners).
CMCF	250	Raoul Karman, Casa Delaporte, Rayo No. 67, P. O. Box 647, Havana, Cuba.
CMX	750	Casa "Lavin," Francisco A. Lavin, Admr., Avenue de la Republica No. 99-A, Havana, Cuba.
KARK	250	Arkansas Radio & Equipment Co., 210 Center St., Little Rock, Ark. (On the National Standard Bldg.)
KFNF	500	Henry Field Co., 407 Sycamore St., Shenandoah, Iowa. "The Friendly Farmer Station."
KSEI	250	Radio Service Corp., 141 So. 6th Ave., Pocatello, Idaho.
KUSD	500	University of South Dakota, Vermilion, S. D. "Voice of South Dakota in the Sunshine State."
VOGY	100	Newfoundland Broadcasting Co., St. John's, Nfld.
WGST	250	Southern Broadcasting Co., Ansley Hotel, Atlanta, Ga. (CBS).
WILL	250	University of Illinois, 362 Administration St., W., Urbana, Ill. "The Roger C. Sullivan Memorial Station."
WJAR	500	The Outlet Co., Weybossett St., Providence, R. I. "The Southern Gatewa of New England." (Red).
WMMN	250	A. M. Rowe, Inc., 325 Adams St., Fairmont, W. Va. "The Friendly Station." (NNRC tips).
XETU	100	Rodrigo Manriquez, Pachuca, Hdo., Mexico.

900 kilocycles 333.1 meters

KGBU	500	Alaska Radio & Service Co., Inc., Mile Five, Wards Cove Road, Ketchikan, Alaska. "KGBU, the Voice of Alaska."
KHJ	1000	Don Lee Broadcasting System, 1076 West 7th St., Los Angeles, Calif. (CBS).
WBEN	1000	WBEN, Inc., Buffalo Evening News Station, Hotel Statler, Buffalo, N. Y. (Red).
WJAX	1000	City of Jacksonville, Water Works Park, Jacksonville, Fla. "WJAX, Jacksonville, Fla., the Land of Sunshine." (NBC).
WKY	1000	Oklahoma Publishing Co., Plaza Court Bldg., Oklahoma City, Okla. "WKY, the Daily Oklahoman, the Oklahoma City Times, and the Oklahoma Farmer Stock Station." (NBC).
WLBL	2500	Wisconsin Department of Agriculture and Markets, 422 Main St., Stevens Point, Wis. "Wisconsin, Land of Beautiful Lakes." (On the Midwesco Theatre Bldg.)

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910 kilocycles 329.6 meters

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CFCH	100	Northern Supplies, Ltd., Room 15, Capitol Theatre Bldg., North Bay, Ont.
CFCL	100	RADIO Association of Prescott, P. O. Box 16, Prescott, Ont. (915).
CFQC	500	The Electric Shop, Ltd., Saskatoon, Sask.
TICR	50	Government of Costa Rica, San Jose, Costa Rica. (911).
XEW	5000	Cadena Radiodifusoria Mexicana, S. A., 16 de Septiembre, No. 9-A, Mexico City, Mexico. "The Voice of Latin America from Mexico."
XFF	500	Gobierno del Estado de Chihuahua, Mexico. (915).

920 kilocycles 325.9 meters

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CMBW	150	Alvarez-Moris, Ayesteran No. 13, Havana, Cuba. (925).
CMCN	250	Antonio Ginard, Reina y Avenue Buen Retiro, Mariano, Havana, Cuba. (925).
HHK	1000	Republic of Haiti, Port-au-Prince, Haiti.
KFEL	500	Gene O'Fallon, Albany Hotel, Denver, Colo. "Mile High Broadcast Station."
KFXF	500	Colorado Radio Corp., 202 Continental Oil Bldg., Denver, Colo. "The Voice of Denver."
KOMO	1000	Fisher's Blend Station, Inc., Skinner Bldg., Seattle, Wash. (NBC).
KPRC	1000	Houston Printing Co., Publishers, Houston Post, 2204 Houston Post Bldg., Houston, Texas. "Skyline Studios." (NBC)
WAAF	500	Drovers Journal Publishing Co., 836 Exchange Ave., Chicago, Ill. (On Exchange Bldg.)
WBSO	500	Broadcasting Service Organization, Fayette Park, Mass.
WWJ	1000	The Detroit News, Second and Lafayette Blvd., Detroit, Mich. (Red).

930 kilocycles 322.4 meters

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CFRC	50	Queens University, Kingston, Ont.
CKPC	100	Cyrus Dolph, 286 Guelph St., Preston, Ont. (Galt and Preston Community Station) (NNRC tips).
CKX	500	Manitoba Telephone System, Brandon, Man.
CMJF	200	John L. Stowers, Hotel Plaza, Camaguey, Cuba.
KFWI	500	Radio Entertainments, Inc., 505 Geary St., San Francisco, Calif. (In the Bellevue Hotel).
KGBZ	500	Dr. Geo. R. Miller, 715 Grant Ave., York, Neb.
KMA	500	Earl E. May Seed and Nursery Co., Shenandoah, Iowa. "Keeps Millions Advised."
KROW	500	Educational Broadcasting Corp., 1520 Eighth Ave., Oakland, Calif. (Uses remote control from Manx Hotel, San Francisco).
WBRC	500	Birmingham Broadcasting Co., Inc., 2300 Fifth Ave., Birmingham, Ala. "WBRC, At the Bankhead Hotel." (CBS).
WDBJ	250	Times-World Corp., 122 West Church Ave., Roanoke, Va. (On the Shenandoah Life Insurance Co. Bldg.) (CBS).
WIBG	25	WIBG, Inc., Reswick Bldg., Glenside, Pa.

940 kilocycles 319.0 meters

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KOIN	1000	KOIN, Inc., 5th and Main Sts., Portland, Ore. "The Journal." (New Heathman Hotel). (CBS).
WAAT	300	Bremer Broadcasting Corp., 50 Journal Square, Jersey City, N. J. "WAAT, the Voice of the Gate of the Garden State." (Hotel Plaza). (NNRCtips).
WSCH	1000	Congress Square Hotel Co., 579 Congress St., Portland, Maine. (On the Eastland Hotel). (Red).
WDAY	1000	WDAY, Inc., Black Bldg., Fargo, N. D. (NBC).
WFIW	1000	WFIW, Inc., Eight and Main Sts., Hopkinsville, Ky. "Veribest and Bluewngi Flour Station, Hopkinsville in Ole Kentucky." (CBS).
WHA	1000	University of Wisconsin, Madison, Wis. "America's First Educational Radio Station."
XEFO	5000	National Revolucionario Party, Avenue Morelos 110, Mexico City, Mexico. "Radio Nacional."

950 kilocycles 315.6 meters

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CMHD	250	Manuel Alvarez, M. Escobar No. 17, Caibarien, Cuba.
KFWB	1000	Warner Brothers Broadcasting Corp., 6425 Hollywood Blvd., Los Angeles, Calif.
KGHL	1000	Northwestern Auto Supply Co., 4th and Broadway, Billings, Mont. (NBC).
KMBC	1000	Midland Broadcasting Co., Pickwick Hotel, Kansas City, Mo. (CBS).
WRC	500	National Broadcasting Co., Inc., National Press Bldg., Washington, D. C. (NBC).

960 kilocycles 312.3 meters

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CHCK	100	J. A. Gesner and W. E. Burke, Box 321, Charlottetown, P. E. I. "Voice of Canada's Garden Province."
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CHWC	500	R. H. Williams & Sons, Ltd., Hotel Kitchner, Regina, Sask.
CKCK	500	Leader-Post, Leader Bldg., Regina, Sask. "Saskatchewan's Dominant Daily."
CKNC	500	Canadian National Carbon Co., Ltd., 805 Davenport Road, Toronto, Ont. "Eveready Station."
CMBD	150	Luis Perez Garcia, Enamorados y Flores, South Suarez, Havana, Cuba. (965).
CMCW	150	Vilarino Cerbantes y Lorenzo, Fabrica Corner Aspuru Sts., Havana, Cuba. (At Aspuru Building). (965).
XEAW	10000	Cia International Difusora de Reynosa, S. A., Reynosa, Tams., Mexico. (965).
CMJL	50	Enrique Artime, Cuba No. 27, Camaguey, Cuba.
YV1BC	5000	Broadcasting Caracas, Apartado Correos 290, Caracas, Venezuela.

### 970 kilocycles 309.1 meters

KJR	5000	Fisher's Blend Station, Inc., Skinner Bldg., Seattle, Wash. (NBC).
WCFL	1500	Chicago Federation of Labor, 666 Lake Shore Drive, Chicago, Ill. "Voice of Labor." (American Furniture Mart Bldg.) (Red).

### 980 kilocycles 303.9 meters

CFCN	10000	The Voice of the Prairies, Ltd., Toronto General Trusts Bldg., Calgary, Alta. (985).
CMGF	100	Bernabe R. de la Torre, G. Betancourt No. 105, Matanzas, Cuba. (987).
KDKA	50000	Westinghouse Electric & Mfg. Co., William Penn Hotel, Pittsburgh, Pa. "Pioneer Broadcasting Station of the World." (Blue).

### 990 kilocycles 302.8 meters

WBZ	25000	Westinghouse Electric & Mfg. Co., Hotel Bradford, Boston, Mass. (WBZA is synchronized station in Springfield, Mass. (Blue).
XEK	100	Arturo Martinez, Mexico City, Mexico.

### 1000 kilocycles 299.8 meters

KFVD	250	Los Angeles Broadcasting Co., 645 S. Mariposa Ave., Los Angeles, Cal. (Auburn-Cord Bldg.)
WHO	5000	Central Broadcasting Co., 6th St. and Grand Ave., Des Moines, Iowa. (Red).
WOC	5000	Central Broadcasting Co., 1002 Brady St., Davenport, Iowa. (Palmer School of Chiropractic). (Red)
WORK	1000	York Broadcasting Co., 13 S. Beaver St., York, Pa.
XEA	100	Radiofonografica de Guadalajara S. A., Ap. 197, 16 de Septiembre 170, Guadalajara, Jal., Mexico. "XEA, de la Radiofonografica de Guadalajara."
XEC	50	Jesus R. Benavides, Toluca, Mexico.
XEFE	100	Rafael T. Carranza, Nuevo Laredo, Tams., Mexico.
XEFI	100	Feliciano Lopez Islas, Chihuahua, Chih., Mexico.
XEFJ	100	Rodolfo Junko de la Vega, Monterrey, N. L., Mexico.
XEFS	40	Salvador Sanchez, Queretaro, Qro., Mexico.
XEL	10	Antonio Garza Castro y J. T. Perez, Apdo. Postal 18, Escuela Normal, Saltillo, Coach., Mexico. "La Vox de Saltillo." (Escuela Normal).

### 1010 kilocycles 296.9 meters

CFCO	250	John Beardall, William Pitt Hotel, Chatham, Ont. (NNRC tips) "Coming From Chatham, Ontario."
CKIC	50	Acadia University, Wolfville, N. S.
CMBZ	150	Manuel y G. Salas, San Rafael No. 14, Havana, Cuba.
KGGF	500	Hugh J. Powell and Stanley Platz, 8th and Elm Sts., Coffeyville, Kansas.
KQG	500	Pacific Agricultural Foundation, Ltd., 87 E. San Antonio, St., San Jose, Calif. "For God and Country."
WHN	250	Marcus Loew Booking Agency, 1540 Broadway, New York, N. Y. "There is Always a Good Show at any Loew Theatre." (Loew State Theatre Bldg.)
WIS	500	WIS, Inc., 1811 Main St., Columbia, S. Car. "Wonderful Iodine State." (Jefferson Hotel). (NBC).
WNAD	500	Univeristy of Oklahoma, Norman, Okla.
WPAP	250	Marcus Loew Booking Agency. (See WHN above).
WQAO	250	Marcus Loew Booking Agency. (See WHN above).
WRNY	250	Marcus Loew Booking Agency. (See WHN above).
XEJ	500	Juan G. Buttner and Leo Allande, P. O. Box 111, Juarez, Chih., Mexico. "The Voice of the Border." (Pan American Gardens). (1015).
XEU	100	Baltasar Pazos Sosa, Vicario 12, Veracruz, Ver., Mexico. "El Eco de Sotavento desde Veracruz."

### 1020 kilocycles 293.9 meters

KYW	10000	Westinghouse Electric & Mfg. Co., 310 S. Michigan Ave., Chicago, Ill. (Straus Bldg.) (Also uses call KFKX). (NBC).
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WRAX 250 WRAX Broadcasting Co., 217 S. Broad St., Philadelphia, Pa. "The Foreign Language Station."  
 XEFC 10 Hugo Molina Font, Merida, Yuc., Mexico.

### 1030 kilocycles 291.1 meters

CFCF 500 Canadian Marconi Co., 1231 St. Catherines St., W., Montreal, Que. (Mount Royal Hotel). (NBC).  
 CMHI 30 Laviz and Paz, Independencia No. 34, Santa Clara, Cuba. "La Voz de la Victor." (Alvarez de la Campa).  
 CMKC 150 Pinol Batlle y Co., J. A. Saco, Alta 23, Santiago de Cuba. (1034).  
 CNR 500 Canadian National Railways, 1150 Main St., Vancouver, B. C.  
 XEB 1000 Cia Manfra de Cigaros El Buen Tono S. A., Calle de Buentonon 6, Mexico City, Mexico.

### 1040 kilocycles 288.3 meters

CMGH 15 Octavio y Julio Alvarez, B. Byrne No. 113, Matanzas, Cuba.  
 KRLD 10000 KRLD Radio Corp., 1516 Kirby Bldg., Dallas, Texas. (Adolphus Hotel). (CBS).  
 KTHS 10000 Hot Springs Chamber of Commerce, 135 Benton St., Hot Springs, Ark. "Kum To Hot Springs." (NBC).  
 WESG 1000 WESG, Inc., Mark Twain Hotel, Elmira, N. Y. (Transmitter owned by Cornell University and located at Ithaca, N. Y.)  
 WKAR 1000 Michigan State College, East Lansing, Mich.

### 1050 kilocycles 285.5 meters

CMJG 50 Jose Antonio Lefran, Martires No. 133, Camaguey, Cuba.  
 KFBI 5000 Farmers & Bankers Life Ins. Co., Box 345, Abilene, Kansas.  
 KNX 25000 Western Broadcast Co., 5555 Marathon St., Hollywood, Calif. Voice of Hollywood." (Paramount Pictures).  
 XES 250 Defusora Portena, Aduana 4 Sur Altos, Box 309, Tampico, Tams., Mexico. "The Voice of the Gulf of Mexico from Tampico." (1055).

### 1060 kilocycles 282.8 meters

KWJJ 500 KWJJ Broadcast Co., Inc., 220 Broadway, Portland, Ore.  
 WBAL 10000 Consolidated Gas, Electric Light & Power Co., Lexington Bldg., Baltimore, Md. "This is Baltimore." (Blue).  
 WJAG 1000 Norfolk Daily News, Norfolk, Nebr. (Hotel Norfolk). (Henry Field Trading Co.)  
 WTIC 50000 Travelers Broadcasting Service Cop., 26 Grove St., Hartford, Conn. (Red).

### 1070 kilocycles 280.2 meters

CMBG 225 John L. Stowers, Hospital No. 100, Havana, Cuba.  
 CMCB 150 Metropolitan-Radio de Cuba, Metropolitan Bldg., Havana, Cuba.  
 KJBS 100 Julius Brunton & Sons Co., 1380 Bush St., San Francisco, Calif.  
 WCAZ 50 Superior Broadcasting Service, Inc., 97 1/2 Adams St., Carthage, Ill.  
 WDZ 100 James L. Bush, Star Store Bldg., Tuscola, Ill.  
 WTAM 50000 National Broadcasting Co., Inc., 1367 East 6th St., Cleveland, Ohio. (Red).  
 XEG 500 Ricardo Gonzalez Montero, Mexico City, Mexico. (1075).

### 1080 kilocycles 277.6 meters

WBT 25000 Station WBT, Inc., Wilder Bldg., Charlotte, N. C. "Pioneer Broadcasting Station of the South." (CBS).  
 WCBD 5000 Wilbur Glenn Voliva, Temple Site, Zion, Ill. "Where God Rules Man Prospers."  
 WMBI 5000 Moody Bible Institute of Chicago, 153 Institute Place, Chicago, Ill. "West-point of Christian Service."

### 1090 kilocycles 275.1 meters

KMOX 50000 Voice of St. Louis, Inc., Mart Bldg., St. Louis, Mo. (CBS).  
 XEAI 100 Carlos Gonzales Caballero, Mexico City, Mexico.

### 1100 kilocycles 272.6 meters

KGDM 250 E. F. Peffer, 42 S. California St., Stockton, Calif. "KGDM, the Peffer Broadcasting Station."  
 WLWL 5000 Missionary Society of St. Paul the Apostle, Op. by Universal Broadcasting Corp., 425 W. 59th St., New York, N. Y.  
 WPG 5000 Municipality of Atlantic City, Op. by Columbia Broadcasting System, Convention Hall, Atlantic City, N. J. "World's Playground." (CBS).



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### 1110 kilocycles 270.1 meters

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CMJO	50	J. M. Rey Sarmiento, Gral. Machado y Amaceo, Ciego de Avila, Cuba.
KS00	1000	Sioux Falls Broadcast Assn., Inc., Carpenter Hotel, Sioux Falls, S. D.
WRVA	5000	Larus & Bros. Co., Inc., 22nd and Cary Sts., Richmond, Va. "Down Where the South Begins." (NBC).
XENT	150000	Compani Industrial Universal S.A., Apdo. 47, Nuevo Laredo, Tams., Mexico. (Mail: Box 163, Laredo, Tex.) "Voice of the Continents." (1115).

### 1120 kilocycles 267.7 meters

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CFCA	500	Toronto Daily Star, 80 King St., W., Toronto, Ont.
CFJC	100	Review Publishing Co., Ltd., Box 760, Kamloops, B. C. "CFJC, the Sentinel, Kamloops."
CHGS	100	R. T. Holman, Ltd., Water St., Summerside, P. E. I.
CHLP	100	LaPatrie Publishing Co., Ltd., Montreal, Que.
CJOC	100	H. R. Carson, Ltd., Marquis Hotel, Fourth Ave., Lethbridge, Alta. "The Sunny South Station."
CMHJ	40	Victorino Lopez, Apdo. 57, Cienfuegos, Cuba. (Hotel Bristol). (1125).
KFIO	100	Spokane Broadcasting Corp., 213 Riverside, Spokane, Wash. "The Friendly Station." (Pedicord Hotel).
KFSG	500	Echo Park Evangelistic Assn., 1100 Glendale Blvd., Los Angeles, Calif. "KFSG, the Glory Station of the Pacific Coast."
KRKD	500	Fireside Broadcasting Co., 815 Spring Arcade Bldg., Los Angeles, Calif.
KRSC	100	Radio Sales Corp., Washington Athletic Club, Seattle, Wash.
KTRH	500	KTRH Broadcasting Co., Main and Texas Sts., Houston, Texas. "The Rice Hotel, Houston's Welcome to the World." (CBS).
WDEL	250	WDEL, Inc., 10th and King Sts., Wilmington, Del.
WHAD	250	Marquette University, 1511 W. Wisconsin Ave., Milwaukee, Wis. (CBS).
WISN	250	American Radio News Corp., 123 W. Michigan Ave., Milwaukee, Wis. "The News at Milwaukee." (Evening Wisconsin). (CBS).
WTAW	500	Agricultural and Mechanical College of Texas, College Station, Texas.

### 1130 kilocycles 265.3 meters

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KSL	50000	Radio Service Corp. of Utah, 504 Vermont Bldg., Salt Lake City, Utah. "Voice of the Intermountain Empire." (CBS).
WJJD	20000	WJJD, Inc., Palmer House, Chicago, Ill. (Loyal Order of Moose). (Remote control from Aurora, Ill.)
WOV	1000	International Broadcasting Corp., 16 E. 42nd St., New York, N. Y. "Public Service Station."
XEH	250	Tarnava y Cia., P. Mier 215, Monterrey, N. L., Mexico. "Voz de Monterrey." (1132).

### 1140 kilocycles 263.0 meters

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CMBJ	150	Emilio Perera, Consulado y Virtudes, Havana, Cuba.
CMCD	250	Angel Bertematy y Garcia, Hotel Palace, G. y 25, Vedado, Havana, Cuba. "Radio Popular Cubana."
KVOO	5000	Southwestern Sales Corp., Wright Bldg., Tulsa, Okla. "Voice of Oklahoma." (NBC).
WAPI	5000	WAPI Broadcasting Corp., 2021 First Ave., Birmingham, Ala. "Voice of Alabama." (Protective Life Bldg.) (NBC).
XETA	250	Manuel Espanosa Tagle, Mexico City, Mexico.

### 1150 kilocycles 260.7 meters

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CMJH	30	Luis Marauri Mendoza, Independence St. No. 89, Ciego de Avila, Cuba. "La Voz de la Victor." "La Moderna Poesia y Cervantes."
WHAM	25000	Stromberg-Carlson Tel. Mfg. Co., 100 Carlson Road, Rochester, N. Y. "There is Nothing Finer Than the Stromberg-Carlson." (Sagamore Hotel). (Blue).
XED	500	International Broadcasting Co., Guadalajara, Jal., Mexico. (1155).
10-AT	25	Trail Amateur Radio Assn., Trail, B. C. (1155).

### 1160 kilocycles 258.5 meters

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WOWO	10000	Main Auto Supply Co., 215 W. Main St., Fort Wayne, Ind. (CBS).
WVVA	5000	West Virginia Broadcasting Corp., Hawley Bldg., Wheeling, W. Va. (CBS).

### 1170 kilocycles 256.3 meters

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CMJE	50	Manuel Fernandez, Plaza de Maceo, Camaguey, Cuba. (1175). (Casa Montevaro).
WCAU	50000	WCAU Broadcasting Co., 1321 Arch St., Philadelphia, Pa. (CBS).



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WIBX	100	WIBX, Inc., 187 Genesee St., Utica, N. Y.
WIL	100	Missouri Broadcasting Corp., Melbourne Hotel, Grand and Lindell Sts., St. Louis, Mo. "Choice of the Multitude."
WJBC	100	Kaskaskia Broadcasting Co., Kaskaskia Hotel, LaSalle, Ill. "The Voice of the Illinois Valley."
WJBL	100	Commodore Broadcasting, Inc., 134 S. Water St., Decatur, Ill.
WJBW	100	C. C. Carlson, 2743 Dumaine St., New Orleans, La. "Louisiana's Friendly Broadcasting Station."
WKJC	100	Lancaster Broadcasting Service, Inc., 16 W. King St., Lancaster, Pa. "Your Own Radio Station." (Studios in Kirk-Johnson Bldg.)
WLAP	100	American Broadcasting Corp. of Kentucky, 212 Speed Bldg., Louisville, Ky.
WNBO	100	Sprigg Synplex, Warner-State Studio, Washington, Pa. "Voice of Southwestern Pennsylvania." (Studio at Silverhaven, Pa.)
WNBW	10	WNBW, Inc., 50 Main St. N., Carbondale, Pa.
WORC	100	A. F. Kliendienst, 60 Franklin St., Worcester, Mass. (CBS).
WPHR	100	WLBG, Inc., Medical Arts Bldg., Petersburg, Va. "Serving Virginia's Industrial Triangle."
WRBL	100	WRBL Radio Station, Inc., Columbus, Ga. "The Voice of the Chattahoochee." (Royal Theatre Bldg.)
WWAE	100	Hammond-Calumet Broadcasting Corp., 1525 E. 53rd St., Chicago, Ill. (Station at Hammond, Ind.). "Voice of the Calumet Region."
10-AB	25	Moose Jaw Radio Assn., Grant Hall Hotel, Moose Jaw, Sask. (NNRC tips).
10-AK	15	M. I. Higgins Electric & Radio Co., 151 Ontario St., Stratford, Ont. "Classic City Station."
10-BI	25	Prince Albert Radio Club, Orpheum Theatre Bldg., Prince Albert, Sask.
10-BP	25	W. T. Cruickshank, Box 65, Wingham, Ont. "Your Home Station." (Radio and Electric Shop). (1199).
10-BQ	15	Tom Brown and Harold Brown, 12 Terrace St., Brantford, Ont. "B for Brantford, Q for Quality."
10-BU	15	Kenora Radio Assn., Railway Ave. E., Kenora, Sask.

## 1210 kilocycles 247.8 meters



CFNB	100	James S. Neill & Sons Ltd., Queen St., Fredericton, N. B.
CJOR	500	George C. Chandler, 804 Hornby St., Vancouver, B. C. (Alexandra Ballroom).
CKMC	100	R. L. MacAdam, Box 788, Cobalt, Ont.
KASA	100	E. M. Woody, 3rd and Main Sts., Elk City, Okla. "The Voice of Western Oklahoma." (Casa Grande Hotel).
KDLR	100	KDLR, Inc., 1625 Third St., Devils Lake, N. D.
KFJI	100	KFJI Broadcasters, Inc., 205 Main St., Klamath Falls, Ore. (Willard Hotel).
KFOR	100	Howard Shuman, Box 1537, Lincoln, Nebr. (Securities Mutual Life Bldg.). (NNRC tips)
KFPW	100	Southwestern Hotel Co., 1213 Garrison Ave., Fort Smith, Ark. "Voice Fort Smith." (Goldman Hotel).
KFVS	100	Oscar C. Hirsch, Box 275, Cape Girardeau, Mo. (Marquette Hotel).
KFXM	100	Lee Bros. Broadcasting Co., California Hotel, San Bernardino, Calif. "Voice of the Sunkist Valley." (NNRC tips).
KGCR	100	Greater Kampska Radio Corp., 312 Citizens Bank Bldg., Watertown, S. D. "Voice of Friendship." (McDette Hill.)
KGNO	100	Dodge City Broadcasting Co., First National Bank Bldg., Dodge City, Kans. "The Voice of the Great Southwest."
KGY	100	KGY, Inc., Capitol Park Bldg., Olympia, Wash.
KIEM	100	Harold H. Hanseth, Eureka, Calif.
KPPC	50	Pasadena Presbyterian Church, 585 E. Colorado St., Pasadena, Calif.
KWEA	100	Hello World Broadcasting Corp., Spring and Fannin Sts., Shreveport, La.
WALR	100	WALR Broadcasting Corp., First Trust & Savings Bank Bldg., Zanesville, Ohio. "Voice of Southeastern Ohio."
WBAX	100	John H. Stenger, Jr., 70 S. Main St., Wilkes Barre, Pa. "Home of Anthracite, World's Most Economical Fuel." (Morris Bldg.)
WBBL	100	Grace Covenant Presbyterian Church, 1627 Monument Ave., Richmond, Va.
WCBS	100	WCBS, Inc., 208½ S. Fifth St., Springfield, Ill. "Home and Last Resting Place of Abraham Lincoln." (Frank A. Bridge Bldg.)
WCRW	100	Clinton R. White, 2756 Pine Grove Ave., Chicago, Ill.
WEBQ	100	Harrisburg Broadcasting Co., 100 E. Poplar St., Harrisburg, Ill.
WEDC	100	Emil Denmark Inc., 3860 Ogden Ave., Chicago, Ill.
WFAS	100	Westchester Broadcasting Corp., Roger Smith Hotel, White Plains, N. Y. (NNRC tips).
WGBB	100	Harry H. Carman, 64 S. Grove St., Freeport, N. Y.
WGCM	100	Great Southern Land Co., Great Southern Hotel, Gulfport, Miss. "That Big Little Station."
WGNV	50	Peter Goelet, Chester, Orange Co., N. Y.
WHBF	100	Rock Island Broadcasting Co., Hotel Harms, Rock Island, Ill. "The Voice of the Quad-Cities." (Rock Island Arms).
WHBU	100	Anderson Broadcasting Corp., 641 Citizens Bank Bldg., Anderson, Ind. "Your Station." (NNRC tips).
WHET	100	Troy Broadcasting Co., North Oak and E. Walnut Sts., Troy, Ala. (City Hall). (NNRC tips).
WIBU	100	Wm. C. Forrest, RFD No. 3, Poinette, Wis.
WJBI	100	Monmouth Broadcasting Co., Inc., 65 Broad St., Red Bank, N. J. "Voice of Red Bank in New Jersey".

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WJBU	100	Bucknell University, Lewisburg, Pa. "In the Heart of the Keystone State."
WJBY	100	Ingram's Broadcasting Co., 112 No. 8th St., Gadsden, Ala. "Down South Where Jay Birds Yodel."
WJEJ	100	A. V. Tidmore, Hotel Alexander, Hagerstown, Md. "The Voice of the Valleys."
WJW	100	WJW, Inc., 41 So. High St., Akron, Ohio.
WKFI	100	J. Pat Scully, PO Box 302, Greenville, Miss. "The Voice of the Delta."
WMBG	100	Havens & Martin, Inc., 914 W. Broad St., Richmond, Va. (CBS).
WOCL	50	A. E. Newton, 840 N. Main St., Jamestown, N. Y. "We're on Chatauqua Lake."
WOMT	100	Francis Mangin, Kadow, PO Box 326, Manitowoc, Wis. "World's Only Mikadow Theatre."
WPAW	100	Cherry & Webb Broadcasting Co., 20 Richmond St., Providence, R. I. (Lowe's State Theatre Bldg.) (WPRO).
WQDX	100	Stevens Luke, 1141 Gordon Ave., Thomasville, Ga.
WSBC	100	WSBC, Inc., 1250 S. Michigan Ave., Chicago, Ill.
WSEN	100	Columbus Broadcasting Corp., Seneca Hotel, Columbus, Ohio.
WSIX	100	Draghan Bros., 638 Tire & Vulcanizing Co., Springfield, Tenn. (Relays WLW). (NNRC tips).
WSOC	100	WSOC, Inc., 251 E. Main St., Gastonia, N. C.
WTAX	100	WTAX, Inc., 416 E. Capitol Ave., Springfield, Ill. (Hotel Abraham Lincoln).
XEX	500	"Excelsior" Cia Editorial S. A., Mexico City, Mexico.

### 1220 kilocycles 245.8 meters

CMHK	15	Virgilio Villanueva, Heredia No. 61, Cruces, Cuba. (1225).
KFKU	500	University of Kansas, 109 Fraser Hall, Lawrence, Kans. "Broadcasting Station of the University of Kansas."
KTW	1000	First Presbyterian Church, 7th Ave. and Spring St., Seattle, Wash.
KWSC	1000	State College of Washington, Pullman, Wash.
WCAD	500	St. Lawrence University, Park St., Canton, N. Y. "Voice of the North Country."
WCAE	1000	WCAE, Inc., & Pittsburgh Sun-Telegraph, 6th Ave. and Smithfield St., Pittsburgh, Pa. (Red).
WDAE	1000	Tampa Daily Times, Tampa Terrace Hotel, Tampa, Fla. (CBS).
WREN	1000	Jenny Wren Co., 546 Massachusetts St., Lawrence, Kans. "The Jenny Wren Station." (Blue).

### 1230 kilocycles 243.8 meters

CMBY	250	Callejas-Estefani, Principe No. 33, Havana, Cuba.
CMCA	150	Manuel Cruz, Avenue de Italia, No. 102, Havana, Cuba.
KFQD	250	Anchorage Radio Club, Inc., Anchorage, Alaska. "The Voice of the Golden North."
KGGM	250	New Mexico Broadcasting Co., Franciscan Hotel, Albuquerque, N. Mex. "Voice of the Health Country."
KYA	1000	Pacific Broadcasting Co., 988 Market St., San Francisco, Calif. (NBC).
WFEM	1000	Indianapolis Power & Light Co., 229 N. Pennsylvania St., Indianapolis, Ind. "The Cross Roads of America." (CBS).
WNAC	1000	Shepard Broadcasting Service, Inc., 1 Winter Place, Boston, Mass. (Hotel Buckminster). (CBS).
WSBT	500	South Bend Tribune, South Bend, Ind. (Studios in the Tribune Bldg.) (WFAM). (CBS).

### 1240 kilocycles 241.8 meters

CMAB	20	Jose Silvera, Marti No. 101, Pinar del Rio, Cuba. (1249).
CMJN	50	Ernesto de Ugarriza, Martires No. 11, Carmaguey, Cuba.
KGCU	250	Mandan Radio Assn., 404 W. Main St., Mandan, N. Dak. "Voice of the West." (Hotel Lewis & Clark).
KLPM	250	John B. Cooley, Box 707, Minot, N. Dak. (Leland-Parker Hotel).
KTAT	1000	KTAT Broadcast Corp., Fort Worth National Bank Bldg., Fort Worth, Texas.
KTFI	500	Radio Broadcasting Corp. of Idaho, Box 521, Twin Falls, Idaho. "Radio Broadcasting Station of Southern Idaho." (Park Hotel). (NNRC tips).
WACO	1000	Central Texas Broadcasting Co., 412 Amicable Life Bldg., Waco, Texas. (CBS).
WKAQ	1000	Radio Corp. of Porto Rico, Box 868, San Juan, Porto Rico. "Puerto Rico, the Isle of Enchantment."
WXYZ	1000	Kunsky-Trendle Broadcasting Corp., 300 Madison Theatre Bldg., Detroit, Mich. "This is Your Station, WXYZ." (Maccabees Bldg.).
XEFW	70	Jose Expedito Martinez, Tampico, Tams., Mexico.

### 1250 kilocycles 239.9 meters

KFMX	1000	Carleton College, Northfield, Minn. "The Maize and the Blue Station."
KFOX	1000	Nichols & Winriner, Inc., 220 E. Anaheim St., Long Beach, Calif. (Building of Goodyear Service, Inc.). (CBS).
WAAM	1000	WAAM, Inc., 1060 Broad St., Newark, N. J.
WCAL	1000	St. Olaf College, Manitou Heights, Northfield, Minn.
WDSU	1000	Joseph H. Uhalt, Hotel DeSoto, New Orleans, La. "The Leader." (CBS).

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WGCP	250	May Radio Broadcasting Co., 609 Broad St., Newark, N. J. (Hahne Studios).
WLB	1000	University of Minnesota, St. Paul, Minn. "Voice of the Minnesota Campus."
WODA	1000	Richard E. O'Dea, 115 Ellison St., Paterson, N. J.
WRHM	1000	Minnesota Broadcasting Corp., Wesley Temple Bldg., Minneapolis, Minn. "Voice of the Gopher State." (Also Farmers Union, Minnesota Bldg., St. Paul).
XEFA	500	Eduardo Limon Segui, Mexico City, Mexico.

### 1260 kilocycles 238.0 meters

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KOIL	1000	Mona Motor Oil Co., Brandeis Studios, Omaha, Neb. "Voice of Barnsdall." (Studio in Council Bluffs, Iowa). (Blue).
KRGV	500	KRGV, Inc., Harlingen, Texas. "The Valley Voice." (Rio Grande National Life Bldg.)
KVOA	500	Robert M. Riculfi, Consolidated National Bank Bldg., Tucson, Ariz. ("The Sunshine City.")
KWWG	500	Frank P. Jackson, Brownsville, Texas. (Brownsville Herald).
WLBW	500	Broadcasters of Pennsylvania, Inc., Erie, Pa. "Northwestern Pennsylvania's Broadcasting Station." (CBS).
WNBX	250	WNBX Broadcasting Corp., 31 Main St., Springfield, Vt.
WTOC	500	Savannah Broadcasting Co., Inc., DeSoto Hotel, Savannah, Ga. "City of Southern Charm." (CBS).

### 1270 kilocycles 236.1 meters

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CMBC	150	Domingo Fernandez, Maximo Gomez No. 139, Havana, Cuba. "Progreso Cubano."
KGCA	100	Charles W. Greenley, 201-203 Water St., Decorah, Iowa. "Decorah, Iowa, the Switzerland of America."
KOL	1000	Seattle Broadcasting Co., Northern Life Tower, Seattle, Wash. (CBS).
KVOR	1000	Reynolds Radio Co., Inc., Mining Exchange Bldg., Colorado Springs, Colo. "The Voice of the Rockies." (CBS).
KWLC	100	Luther College, Decorah, Iowa.
WASH	500	Kunsky-Trendle Broadcasting Corp., 501 Young Bldg., Grand Rapids, Mich.
WFBR	500	The Baltimore Radio Show, Inc., 7 St. Paul St., Baltimore, Md. "WFBR, Baltimore, the Heart of Maryland." (Red).
WJDX	1000	Lamar Life Insurance Co., Lamar Life Bldg., Jackson, Miss. "The Voice of Mississippi." (NBC).
WOOD	500	Kunsky-Trendle Broadcasting Corp., 501 Young Bldg., Grand Rapids, Mich.

### 1280 kilocycles 234.2 meters

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KFBB	1000	Buttrey Broadcast, Inc., Great Falls, Mont. "Voice of the Treasure State."
WCAM	500	City of Camden, 18th floor City Hall, Camden, N. J.
WCAP	500	Radio Industries Broadcast Co., Convention Hall, Asbury Park, N. J. "The Voice of the City of Asbury Park in New Jersey, One of America's Foremost All-Year Resort Cities." (CBS).
WDOD	1000	WDOD Broadcasting Corp., Hotel Patten, Chattanooga, Tenn. (CBS).
WIBA	500	Badger Broadcasting Co., Inc., 111 King St., Madison, Wis. "WIBA, at Madison, the Four-Lake City." (NBC).
WRR	500	City of Dallas, Hilton Hotel, Dallas, Texas. "World's Oldest Municipal Station." (CBS).
WTNJ	500	Trenton Broadcasting Co., Stacy-Trent Hotel, Trenton, N. J.

### 1290 kilocycles 232.4 meters

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CMHL	20	Oscar Zayas, San Carlos No. 143, Cienfuegos, Cuba.
KDYL	1000	Intermountain Broadcasting Corp., Ezra Thompson Bldg., Salt Lake City, Utah. (NBC).
KFUL	500	News Publishing Co., Buccaneer Hotel, Galveston, Texas.
KLCN	100	C. L. Lintzenich, Main and Division Sts., Blytheville, Ark.
KTSA	1000	Southwest Broadcast Co., Plaza Hotel, San Antonio, Texas. (CBS).
WEBC	1000	Head of the Lakes Broadcasting Co., 1225 Tower Ave., Superior, Wis. "America's Greatest Inland Port." (Studios in the Spaulding Hotel in Duluth and the Telegram Building in Superior). (NBC).
WJAS	1000	Pittsburgh Radio Supply House, 427 Fourth Ave., Pittsburgh, Pa. (CBS).
WNBZ	50	Smith & Mace, 70 Broadway, Saranac Lake, N. Y.
XEAC	100	Francisco de P. Cabrera, San Luis Petosi, S. L. P., Mexico. (1295).
XFB	500	Gobierno del Estado de Veracruz, Jalapa, Ver., Mexico.

### 1300 kilocycles 230.6 meters

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CMKJ	20	Luis Morlote, East Giro No. 11, Guantanamo, Cuba.
KALE	500	KALE, Inc., 223 Weatherly Bldg., Portland, Ore. (CBS).
KFAC	1000	Los Angeles Broadcasting Co., Inc., 645 So. Mariposa Ave., Los Angeles, Calif. (Auburn-Cord Bldg.)
KFH	1000	Wichita Eagle—Hotel Lassen, 124 1/2 So. Market St., Wichita, Kans. (Wheeler-Kelly-Hagny Annex) (CBS).
KFJR	500	Ashley C. Dixon—KFJR, Inc., 95 Fifth St., Portland, Ore.

## INDEX BY FREQUENCIES AND DIAL NUMBERS

VOKW	30	Cyril L. Parkins, Prescott, St., St. John's, Nfld.
WBBR	1000	Peoples Pulpit Assn., 124 Columbia Heights, Brooklyn, N. Y. "The Watch Tower."
WEVD	500	Debs Memorial Fund, Inc., Hotel Claridge, Broadway and 44th St., New York, N. Y.
WFAB	1000	Fifth Ave. Broadcasting Corp., New York, N. Y.
WHAZ	500	Rensselaer Polytechnic Institute, Eighth St., Troy, N. Y.
WIOD	1000	Isle of Dreams Broadcasting Corp., Herald Bldg., 208 S. Miami Ave., Miami, Fla. "Wonderful Isle of Dreams." (NBC).
WOQ	1000	Unity School of Christianity, 917 Tracy Ave., Kansas City, Mo.

### 1310 kilocycles 228.9 meters

KCRJ	100	Charles C. Robinson, 711 Main St., Jerome, Ariz.
KFBK	100	James McClatchy Publishing Co., Sacramento Bee, Sacramento, Calif. (CBS)
KFGQ	100	Boone Biblical College, 924 W. 2nd St., Boone, Iowa.
KFPL	100	C. C. Baxter, 205 Grafton St., Dublin, Texas. "Dubin, Texas, Not Ireland."
KFPM	15	New Furniture Co., 2109 Park St., Greenville, Texas.
KFXR	100	Exchange Ave. Baptist Church, 535 Hightown Bldg., Oklahoma City, Okla. "Oklahoma's Own Broadcasting Station."
KFYO	100	Kirksey Brothers, Hotel Lubbock, Lubbock, Texas. "Lubbock, Texas, The Hub of the Plains."
KGBX	100	KGBX, Inc., Springfield, Mo.
KGCX	100	E. E. Krebsbach, Wolf Point, Mont. "West Land Super Station."
KGEZ	100	Donald C. Treloar, Box 1, Kalispell, Mont.
KGFW	100	Central Nebraska Broadcasting Corp., Midway Hotel, 25th & Central Ave., Kearney, Neb. "The Midway Station of the Nation."
KIFH	100	Juneau Broadcasting Co., Juneau, Alaska.
KIT	100	Valley Broadcasters, Inc., 109 1/2 E. Yakima Ave., Yakima, Wash. "The Voice of the Yakima Valley."
KMED	100	Mrs. W. J. Virgin, Sparta Bldg., Medford, Ore. "Voice of a Great Country."
KRMD	100	KRMD, Inc., Jefferson Hotel, Shreveport, La. "Little Station Giving Big Results."
KTSM	100	Tri-State Broadcasting Co., Inc., 103 S. El Paso St., El Paso, Texas.
KXRO	100	KXRO, Inc., Hotel Morck, Aberdeen, Wash. "Most Westerly Station in the U. S."
WAML	100	Southland Radio Corp., Laurel, Miss.
WBEO	100	Lake Superior Broadcasting Co., 146 W. Washington St., Marquette, Mich.
WBOW	100	Banks of Wabash, Inc., 6th & Wabash Sts., Terre Haute, Ind. "On Banks of the Wabash."
WBRE	100	Louis G. Baltimore, 16 N. Main St., Wilkes-Barre, Pa.
WCLS	100	WCLS, Inc., 301 E. Jefferson St., Joliet, Ill.
WDAH	100	Tri-State Broadcasting Co., Inc., 200 S. El Paso St., El Paso, Texas.
WEBR	100	Howell Broadcasting Co., Inc., 735 Main St., Buffalo, N. Y. "The Golden Rule Station."
WEXL	50	Royal Oak Broadcasting Co., 244 Washington Square Bldg., Royal Oak, Mich. "Prosperity Station."
WFBG	100	The Gable Broadcasting Co., 1230-32 Eleventh Ave., Altoona, Pa. "The Voice of the Alleghenies."
WFDF	100	Frank D. Fallain, Union Industrial Bldg., Flint, Mich.
WGAL	100	WGAL, Inc., 810 W. King St., Lancaster, Pa. "Voice of Lancaster" (Lancaster Newspapers Bldg.)
WGH	100	Hampton Roads Broadcasting Corp., 2813 Washington Ave., Newport News, Va. "World's Greatest Harbor."
WHAT	100	Independence Broadcasting Co., Box 16, Bethayres, Philadelphia, Pa.
WIAS	100	Iowa Broadcasting Co., 902 Register & Tribune Bldg., Des Moines, Iowa. (Station at Ottumwa, Iowa) (Hotel Ottumwa).
WJAC	100	WJAC, Inc., 101 Main St., Johnstown, Pa.
WKAV	100	Laconia Radio Club, Laconia, N. H. "The Voice of the Lake Region" (Public Service Co. of New Hampshire Bldg.).
WKBB	100	Richard W. Hoffman, 510 Joliet National Bank Bldg., Joliet, Ill. "The Voice of Joliet."
WKBC	100	R. B. Broyles Furniture Co., 2021 Second Ave. No., Birmingham, Ala.
WLBC	50	D. A. Burton and A. J. Marriott, Hotel Delaware, Muncie, Ind. "Voice of Eastern Indiana."
WMBO	100	WMBO, Inc., Masonic Bldg., 10 South St., Auburn, N. Y.
WNBH	100	New Bedford Broadcasting Co., 725 Pleasant St., New Bedford, Mass. (New Bedford Hotel) (NNRC tips).
WOL	100	American Broadcasting Co., Annapolis Hotel, Washington, D. C.
WRAW	100	Reading Broadcasting Co., 533 Penn St., Reading, Pa.
WROL	100	Stuart Broadcasting Co., 524 S. Gay St., Knoxville, Tenn. (Farragut Hotel).
WSAJ	100	Grove City College, West and Broad St., Grove City, Pa.
WSJS	100	Winston-Salem Journal Co., 416-420 N. Marshall St., Winston-Salem, N. C. (Journal Sentinel Bldg.) (CBS).
WTEL	100	Foulkrod Radio Engineering Co., Inc., Buery Bldg., Broad and Erie Aves., Philadelphia, Pa. "Telling the City of Homes."
WTJS	100	Sun Publishing Co., Sun Bldg., Jackson, Tenn. "Voice of the Jackson Sun."
WTRC	50	Elkhart Daily Truth, Hotel Elkhart, Elkhart, Ind.
XEFB	100	Quintanilla y Stevenson, P. O. Box 317, Monterrey, N. L., Mexico. "La Voz de Servicio." (1315).
XEI	150	Carlos Gutiérrez M., Valladolid 137, Morelia, Mich., Mexico. "Merceria El Porvenir."

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1320 kilocycles 227.1 meters

CMCY	1000	Manuel D. Autran, Avenue de la Pdes. 215, Vedado, Havana, Cuba. (1325).
KGHF	250	C. P. Ritchie & Geo. J. Ikleman, 113 Broadway, Pueblo, Colo.
KGMB	250	Honolulu Broadcasting Co., 119 Merchant St., P. O. Box 2663, Honolulu, Hawaii. "Station with a Conscience." (CBS).
KID	250	KID Broadcasting Co., Inc., Park Ave. at Broadway, Idaho Falls, Idaho. "Voice of Idaho."
WADC	1000	Allan T. Simmons, P. O. Box 29, Akron, Ohio. (CBS).
WSMB	500	WSMB, Inc., 1401 Canal St., New Orleans, La. "America's Most Interesting City." (NBC).

### 1330 kilocycles 225.4 meters

CMJI	45	Gilberto Gessa Lopez, Independencia No. 95, Ciego de Avila, Cuba. "La Voz de la Trocha." (Los Bobos de Moda). (1335).
KGB	1000	Don Lee Broadcasting System, 1012 First St., San Diego, Calif. "The Don Lee Station, San Diego." (Pickwick Hotel). (CBS).
KMO	250	KMO, Inc., Hotel Winthrop, Tacoma, Wash. "The Voice of Tacoma."
KSCJ	1000	Perkins Bros. Co., (Publishers of Sioux City Journal). Sioux City, Iowa. "Tri-State Broadcasting Station." (CBS).
WDRC	500	WDRC, Inc., 11 Asylum St., Hartford, Conn. (CBS).
WSAI	500	The Crosley Radio Corp., 1329 Arlington St., Cincinnati, Ohio. (Red).
WTAQ	1000	The Gillette Rubber Co., Hotel Eau Claire, Eau Claire, Wis. "WTAQ, Gillette Tires, Eau Claire, Wis." (CBS).

### 1340 kilocycles 223.7 meters

KFPY	1000	Symons Broadcasting Co., Symons Bldg., Spokane, Wash. "The Pioneer Broadcasting Station of the Inland Empire." (CBS).
KGDY	250	Voice of South Dakota, Inc., 347 Dakota Ave., Huron, S. D. "Radio Gives Wings and Sound to Words the Eye Might Miss."
WCOA	500	Pensacola Broadcasting Co., San Carlos Hotel, Pensacola, Fla. "Wonderful City Of Advantages."
WLEC	250	Casco Bay Broadcasting Co., Portland, Maine.
WSPD	1000	The Toledo Broadcasting Co., Commodore Perry Hotel, Toledo, Ohio. (CBS)

### 1350 kilocycles 222.1 meters

KIDO	1000	C. G. Phillips and Frank Hill, Hotel Boise, Boise, Idaho. "KIDO, the Voice of Idaho."
KWK	1000	Themas Patrick, Inc., Lindell & Kings Highway Blvd., St. Louis, Mo. (Hotel Chase). (Blue).
WAWZ	250	Pillar of Fire, Zarephath, N. J.
WBNX	250	New York Metropolitan Broadcasting Corp., 1100 E. 177th St., New York, N. Y. "WBNX, Voice of the Bronx."
WCDA	250	Italian Educational Broadcasting Co., Inc., 225 Lafayette St., New York, N. Y.
WEHC	500	Emory & Henry College, Emory, Va. "Voice of the Old Dominion." (Permit to move to Charlottesville, Va.).
WMSG	250	New York Metropolitan Broadcasting Corp., 1100 E. 177th St., New York, N. H. "WMSG, Twin Voice of the Bronx."

### 1360 kilocycles 220.4 meters

CMCR	150	Aurelio Hernandez, Milagros No. 35, Vibora, Havana, Cuba. (1365).
CMJP	7.5	Cesar Canals, Callejas S-N, Moron, Cuba.
KGER	1000	Consolidated Broadcasting Co., 435 Pine Ave., Long Beach, Calif. (Remote control from Los Angeles). (Dobyns Footwear Bldg.). (NNRC tips).
KGIR	500	KGIR, Inc., 121 Broadway, Butte, Mont. "The Voice of Montana at Butte." (NBC).
WCSC	500	South Carolina Broadcasting Co., Inc., Francis Marion Hotel, Charleston, S. C. "Wonderful Charleston, South Carolina."
WFBL	1000	Onondaga Radio Broadcasting Corp., Onondaga Hotel, Syracuse, N. Y. (CBS).
WGES	500	Oak Leaves Broadcasting Station, Inc., 4000 Washington Blvd., Chicago, Ill. "In the Heart of Chicago." (Guyon's Paradise Ballroom).
WJKS	1000	Johnson-Kennedy Radio Corp., Elks Temple Bldg., Gary, Ind. "Voice of the Steel City."
WQBC	500	Delta Broadcasting Co., Hotel Vicksburg Bldg., Vicksburg, Miss. "The Post-Herald Station."

### 1370 kilocycles 218.8 meters

CMGE	30	Genaro Sebater, Cespedes No. 180, Cardenas, Cuba (1375).
KCRC	100	Enid Radiophone Co., Oxford Hotel, Enid, Okla.
KFBL	50	Leese Bros., 2814 Rucker Ave., Everett, Wash. "The Voice of Everett."
KFJM	100	University of North Dakota, Grand Forks, N. D. (Studio in Hotel Dakotah).
KFJZ	100	Fort Worth Broadcasters, Inc., Texas Hotel, Fort Worth, Texas. "Fort Worth's Own Radio Station." (The Texas, a Baker Hotel).

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KFLX	100	George Roy Clough, 3327 Ave. P, Galveston, Texas.
KGAR	100	Tucson Motor Service Co., 142-148 So. 6th Ave., Tucson, Ariz. "Voice of Tucson."
KGDA	100	Mitchell Broadcasting Corp., 206 First National Bank Bldg., Mitchell, S. D. "The Voice of Progress."
KGFG	100	Oklahoma Broadcasting Co., Inc., 1113 No. Broadway, Oklahoma City, Okla. "Keep Going for God." (Oklahoma City Evangelistic Tabernacle).
KGFL	100	KGFL, Inc., San Francisco St., Santa Fe, N. M. "The Voice of the Mountains."
KGKL	100	KGKL, Inc., St. Angelus Hotel, San Angelo, Texas.
KICA	100	Southwest Broadcasting Co., Clovis, N. Mex.
KMAC	100	Walmac Co., Inc., Blue Bonnet Hotel, San Antonio, Texas. "San Antonio, Texas, the Westpoint of the Air."
KONO	100	Mission Broadcasting Co., St. Anthony Hotel, San Antonio, Texas.
KOOS	100	H. H. Hanseth, Inc., Hall Bldg., Marshfield, Ore. "The Voice of KOOS Bay."
KRE	100	First Congregational Church of Berkeley, 1091 Telegraph Ave., Oakland, Calif. (Studio in Berkeley, Calif.)
KSO	100	Iowa Broadcasting Co., Register and Tribune Bldg., Des Moines, Iowa. (Blue).
KUJ	100	KUJ, Inc., Marcus Whitman Hotel, Walla Walla, Wash. "Walla Walla's Home Station."
KVL	100	KVL, Inc., Fifth Ave. and Virginia St., Seattle, Wash.
KWKC	100	Wilson Duncan Broadcasting Co., 39th and Main Sts., Kansas City, Mo.
WBTM	100	Piedmont Broadcasting Corp., 427 Main St., Danville, Va. "World's Best Tobacco Market." (Danville Hotel).
WCBM	100	Baltimore Broadcasting Corp., 114 N. Lexington St., Baltimore, Md. "The Voice of Keith."
WDAS	100	WDAS Broadcasting Station, Inc., Broad and Vine Sts., Philadelphia, Pa. "May You Laugh in Your Dreams" (at closing time). (Elks Hotel).
WGL	100	F. C. Zieg, 215 N. Main St., Fort Wayne, Ind. (CBS).
WGLC	50	O. T. Griffin & G. F. Bissell, Colonial Display House, Hudson Falls, N. Y.
WHBD	100	F. P. Moler, Mount Orab, Ohio. "The Hundred Watt Station That Covers the Nation."
WHBQ	100	Broadcasting Station WHBQ, Inc., Hotel Claridge, Memphis, Tenn. "The Friendly Station."
WHDF	100	Upper Michigan Broadcasting Co., 109 Fifth St., Calumet, Mich. "Where Copper is King."
WIBM	100	WIBM, Inc., Otsego Hotel, Jackson, Mich.
WJBK	100	James F. Hopkins, Inc., 6559 Hamilton Ave., Detroit, Mich. "WJBK, in the Curtiss Bldg."
WJEQ	100	WRAC, Inc., 442 Williams St., Williamsport, Pa.
WJTL	100	Oglethorpe University, Oglethorpe University Post Office, Georgia. (Studio in Atlanta). (Yaarab Shrine Mosque).
WLEY	100	Albert S. Moffat, Adams St., Lexington, Mass. "Voice of the Minute Man."
WLVA	100	Lynchburg Broadcasting Corp., 915 Main St., Lynchburg, Va. "In the Heart of Old Virginia."
WMBR	100	F. J. Reynolds, 907 Florida Ave., Tampa, Fla. (Hotel Florida).
WPFB	100	Hattiesburg Broadcasting Co., Box 530, Hattiesburg, Miss. "The Voice of the Pines." (Hotel Hattiesburg).
WQDM	100	A. J. St. Antoine and E. J. Regan, 16 Kingman St., St. Albans, Vt.
WRAK	100	WRAK, Inc., 442 Williams St., Williamsport, Pa. "The Greatest Little One-Horse Station in the World." (Studio in the Penn Central Bldg. and station atop the First National Bank Bldg.).
WRAM	100	Wilmington Radio Assn., Inc., Box 258, Princess Street Road, Wilmington, N. C.
WRDO	100	WRDO, Inc., Augusta House, Augusta, Maine.
WRJN	100	Racine Broadcasting Corp., Main and 6th Sts., Racine, Wis. (Hotel Racine).
WSVS	50	Seneca Vocational High School, 666 E. Delevan Ave., Buffalo, N. Y. "Watch Seneca Vocational School."
XEFV	100	Jose Onofre Meza, Ciudad Juarez, Chih., Mexico.

### 1380 kilocycles 217.3 meters

CMJC	150	Feliciano Isaac, Cisneros y G. Gomez, Camaguey, Cuba. (1382).
KOH	500	McClatchy Newspapers, 440 N. Virginia St., Reno, Nev. "The Voice of Nevada." (CBS).
KQV	500	KQV Broadcasting Co., Investment Bldg., Pittsburgh, Pa. "Voice of Pittsburgh."
WKBH	1000	WKBH, Inc., 407 Main St., LaCrosse, Wis. (Radio Bldg.). (CBS).
WSMK	200	Stanley M. Krohn, Jr., 20th floor, U. B. Bldg., Dayton, Ohio.
XETB	125	Jose A. Berumen, Torreón, Coah., Mexico.

### 1390 kilocycles 215.7 meters

CMDB	40	Julio Powers, Quinta 476, Vedado, Havana, Cuba. (1395).
KLRA	1000	Arkansas Broadcasting Co., Albert Pike Hotel, Little Rock, Ark. "Voice of Arkansas." (CBS).
KOY	500	Nielson Radio & Sporting Goods Co., 621 N. Central Ave., Phoenix, Ariz. "The Radio Voice of Arizona." (CBS).
KUOA	1000	Southwestern Hotel Co., Fort Smith, Ark. "Voice of the Ozarks." (Station in Fayetteville, Ark.)



## INDEX BY FREQUENCIES AND DIAL NUMBERS

WHK 1000 Radio Air Service Corp., 1311 Terminal Tower, Cleveland, Ohio. "Cleveland's Pioneer Broadcasting Station." (On the Higbee Store). (CBS).

### 1400 kilocycles 214.2 meters

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CMCH 50 Wifredo & Humberto Fontanals Sanchez, 88 Primellas St., Cerro, Havana, Cuba. (1405).

CMCM 15 Aurelio Balino, Belas Coain No. 639, Havana, Cuba. (1405).

KLO 500 Interstate Broadcasting Corp., 405 25th St., Ogden, Utah. (Hotel Bigelow).

KOCW 250 J. T. Griffin, 1800 So. 18th St., Chickasha, Okla.

WBAA 500 Purdue University, School of Electrical Engineering, Lafayette, Ind.

WBBC 500 Brooklyn Broadcasting Corp., 16 Court St., Brooklyn, N. Y. "Brooklyn's Own Station." (Montague Court Bldg.).

WCGU 500 United States Broadcasting Corp., 427 Flatbush Ave. Extension, Brooklyn, N. Y. "At the Hub of Brooklyn."

WFOX 500 Paramount Broadcasting Co., 1 Nevins St., Brooklyn, N. Y. "In the Fox Theatre Bldg."

WKBF 500 Indianapolis Broadcasting, Inc., 540 N. Meridian St., Indianapolis, Ind. "The Voice of the Capitol."

WLTH 500 Voice of Brooklyn, Inc., 305 Washington St., Brooklyn, N. Y. "Voice of Brooklyn." (Brooklyn Eagle Bldg.).

### 1410 kilocycles 212.6 meters

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KFLV 500 Rockford Broadcasters, Inc., 107 S. Water St., Rockford, Ill. "The Voice of Rock River Valley." (Rockford News Tower).

KGRS 1000 E. B. Gish, Bellaire Park, Amarillo, Texas.

WAAB 500 Bay State Broadcasting Corp., 1 Winter Place, Boston, Mass. (Hotel Buckminster). (CBS).

WBCM 500 James E. Davidson, Wenonah Hotel, Bay City, Mich. "The Voice of North-eastern Michigan." "Where the Summer Trails Begin." (CBS).

WDAG 1000 National Radio & Broadcasting Corp., 300 Polk St., P. O. Box 306, Amarillo Texas. (Hotel Amarillo).

WHBL 500 The Press Publishing Co., 7th St. and Center Ave., Sheboygan, Wis.

WHIS 250 Daily Telegraph Printing Co., Inc., Bland St., Bluefield, W. Va. (West Virginian Hotel).

WODX 500 Mobile Broadcasting Corp., Battle House Hotel, Mobile, Ala. "Where Old Dixie Xports." (CBS).

WRBX 250 Richmond Development Corp., 20 Salem Ave., S. E., Roanoke, Va. "The Southern Gateway to the Shenandoah Valley." (Crystal Springs Studio).

WSFA 500 Montgomery Broadcasting Co., Inc., Jefferson-Davis Hotel, Montgomery, Ala. "Montgomery, Home of the South's Finest Airport." (CBS).

### 1420 kilocycles 211.1 meters

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KABC 100 Alamo Broadcasting Co., Inc., 223 Texas Theatre Bldg., San Antonio, Texas.

KBPS 100 Student Body, Benson Polytechnic School, East 12th and Hoyt Sts., Portland, Ore.

KCMC 100 Texarkana Gazette and Texarkana Daily News, Hotel Grim, Texarkana, Ark.

KFIZ 100 Reporter Printing Co., 18 W. 1st St., Fond du Lac, Wis.

KGFF 100 KGFF Broadcasting Co., 9th and Bell Sts., Shawnee, Okla. "Voice of the Indian Territory." (Aldridge Hotel).

KGGC 100 Golden Gate Broadcasting Co., 2482 Mission St., San Francisco, Calif. "First Station on the Dial." "Official Station of San Francisco Labor Council."

KGIW 100 Leonard E. Wilson, 326 No. Commercial St., Trinidad, Colo.

KGIX 100 J. M. Heaton, P. O. Box 656, Las Vegas, Nevada. "The Voice of Boulder Dam."

KGKX 100 Sand Point Broadcasting Co., Lewiston, Idaho.

KICK 100 Red Oak Radio Corp., 601 Summit St., Red Oak, Iowa.

KIDW 100 Lamar Broadcasting Co., Box 688, Lamar, Colo.

KORE 100 Frank L. Hill & Curtiss G. Phillips, 733 Willamette St., Eugene, Ore. "The City With A Smile of Welcome."

KUMA 100 Dr. Albert H. Schermann, P. O. Box 267, Yuma, Ariz. (Mesa Drug Store Bldg.).

KWCR 100 Cedar Rapids Broadcast Co., 7th floor Hotel Montrose, Cedar Rapids, Iowa. (Blue).

KXL 100 KXL Broadcasters, 269 Pine St., Portland, Ore. "KXL, the Voice of Portland." (Hotel Multnomah.)

WAGM 100 Aroostook Broadcasting Corp., Main St., Presque Isle, Maine. "Wonderful Aroostook, the Garden of Maine." (Presque Isle National Bank Bldg.)

WAMC 100 Raymond C. Hammett, 1200 Noble St., Anniston, Ala. "The Voice of Anniston, the Model City." (Alabama Hotel.)

WAZL 100 Hazelton Broadcasting Service, Inc., Hazelton, Pa.

WEHS 100 WEHS, Inc., 6138 W. 22nd St., Cicero, Ill.

WELL 50 Enquirer News Co., 7 N. McCamly St., Battle Creek, Mich.

WENC 100 Americus Broadcasting Co., Rylander Bldg., Americus, Ga. "Americus, Ga., the Garden Spot of Dixie."

WERE 100 Erie Broadcasting Corp., Lawrence Hotel, Erie, Pa. "Voice of Erie."

WHDL 100 Tupper Lake Broadcasting Co., Inc., Iroquois Hotel, Tupper Lake, N. Y. "The Voice in the Clouds."

## INDEX BY FREQUENCIES AND DIAL NUMBERS

WHFC	100	WHFC, Inc., 6138 West 22nd St., Cicero, Ill. "Voice of the West Towns."
WILM	100	Delaware Broadcasting Co., 920 King St., Wilmington, Del.
WJBO	100	Baton Rouge Broadcasting Co., Inc., 119 So. St. Patrick St., New Orleans, La.
WJMS	100	WJMS, Inc., St. James Hotel, Ironwood, Mich. "The Voice of the Range."
WKBI	100	WKBI, Inc., 6138 West 22nd St., Cicero, Ill.
WLBF	100	WLBF Broadcasting Co., Huron Bldg., Kansas City, Kansas. (Aladdin Hotel).
WMAS	100	WMAS, Inc., Hotel Stonehaven, Springfield, Mass. "Voice of Western Massachusetts." (CBS).
WMBC	100	The Michigan Broadcasting Co., 7310 Woodward Ave., Detroit, Mich. (Storn-feltz-Loveley Bldg.)
WMBH	100	W. M. Robertson, 1334 Roosevelt St., Joplin, Mo. "The Voice of the Great Four-State District."
WPAD	100	Paducah Broadcasting Co., Inc., 2201 Broadway, Paducah, Ky. "Voice of Western Kentucky." (Ritz Hotel).
WSPA	100	Voice of South Carolina, Virgil B. Evans, Radio Center, Spartanburg, S. C.
WTBO	100	Associated Broadcasting Corp., P. O. Box 794, Cumberland, Md. (Commercial Savings Bank).

### 1430 kilocycles 209.7 meters

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KECA	1000	Earle C. Anthony, Inc., 1000 S. Hope St., Los Angeles, Calif. "E. C. A., Inc., Distributor of Packard and Hudson-Essex Motor Cars for California." (NBC).
KGNF	500	Great Plains Broadcasting Co., 1500 Block, West 12th St., North Platte, Neb.
WBKA	1000	Commonwealth of Pennsylvania, Pennsylvania State Police, Capitol Bldg., Harrisburg, Pa. "The Voice of Pennsylvania."
WCAH	500	Commercial Radio Service Co., Hotel Fort Hayes, Columbus, Ohio. "Pioneer Broadcasting Station." (CBS).
WFEA	500	New Hampshire Broadcasting Co., Carpenter Hotel, Manchester, N. H. (CBS).
WHEC	500	WHEC, Inc., 40 Franklin St., Rochester, N. Y. "All Day Broadcasting Station." (Rochester Savings Bank Bldg.). (CBS).
WHP	500	WHP, Inc., Telegraph Bldg., 216 Locust St., Harrisburg, Pa. "WHP, the Harrisburg Telegraph, Central Pennsylvania's Greatest Daily." (CBS).
WNBR	500	Memphis Broadcasting Co., Hotel Devoy, Memphis, Tenn. "On the Mississippi." (Relays WLW and WSM) (WGBC).
WOKO	500	WOKO, Inc., Hotel Ten Eyck, Albany, N. Y. (CBS).

### 1440 kilocycles 208.2 meters

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CMBL	20	Julio C. Hidalgo, Zapata 150, Ent., 6 y 8 Vedado, Havana, Cuba. (1445)
KDFN	500	Donald C. Hathaway, Hotel Townsend, Casper, Wyo.
KLS	250	Warner Bros., 2201 Telegraph Ave., Oakland, Calif.
KXYZ	250	Harris County Broadcast Co., Fannin & Rusk Sts., Houston, Texas. "Everybody's Station." (Texas State Hotel).
WBIG	500	North Carolina Broadcasting Co., Inc., P.O. Box 408, Greensboro, N. C. (O. Henry Hotel and Jefferson Standard Bldg.). (CBS).
WCBA	250	B. Bryan Musselman, 39-41 N. 10th St., Allentown, Pa. "This is the Queen City's Radio Station."
WMBD	500	Peoria Broadcasting Co., 114 N. Madison St., Peoria, Ill. "From the Heart of Illinois." (CBS).
WSAN	250	Allentown Call Publishing Co., Inc., 101 N. 6th St., Allentown, Pa.
WTAD	500	Illinois Broadcasting Corp., 600 State St., Quincy, Ill.

### 1450 kilocycles 206.8 meters

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KTBS	1000	Tri-State Broadcasting System, Inc., P.O. Box 1642, Shreveport, La. (Washington-Youree Hotel) (NBC).
WGAR	500	WGAR Broadcasting Co., Inc., Hotel Statler, Cleveland, Ohio. "Cleveland's Friendly Station." (Blue).
WHOM	250	New Jersey Broadcasting Corp., 2870 Boulevard, Jersey City, N. J. "The Voice of the New Metropolis." (NNRC tips).
WSAR	250	Doughty and Welch Electric Co., Inc., 10 Bedford St., Fall River, Mass. "The Voice of Fall River."
WTFI	500	Liberty Broadcasting Co., Costa Bldg., Athens, Ga. "Home of Costa's Icecream, Just a Little Better." (NNRC tips).
XEAB	7.5	Humberto Garcia R., Nuevo Laredo, Tams., Mexico.

### 1460 kilocycles 205.4 meters

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KSTP	25000	National Battery Broadcasting Co., St. Paul Hotel, St. Paul, Minn. (St. Paul Hotel, St. Paul, and Radisson Hotel, Minneapolis) (NBC).
WJSV	10000	Old Dominion Broadcasting Co., 1218 Shoreham Bldg., Washington, D. C. "The Voice from the Nation's Capital." (Station in Alexandria, Va.) (CBS).

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1470 kilocycles 204.0 meters

- KGA 5000 Northwest Broadcasting System, 1023 West Riverside Ave., Spokane, Wash (Sun Life Assurance Bldg.) (Blue).  
 WLAC 5000 Life & Casualty Insurance Co., 159 Fourth Ave. N., Nashville, Tenn. "The Thrift Station." (CBS).

### 1480 kilocycles 202.6 meters

- CMBK 15 Alberto Alvarez, Paula y Oficios, Havana, Cuba (1485).  
 CMBR 40 Tomas Basail, Avenue 6 Entre F. y G., Arroyo Apolo, Havana, Cuba (1485).  
 KOMA 5000 National Radio Manufacturing Co., Oklahoma-Biltmore Hotel, Oklahoma City, Okla. (CBS).  
 WKBW 5000 Buffalo Broadcasting Corp., Rand Bldg., Buffalo, N. Y. (CBS).

### 1490 kilocycles 201.2 meters

- WCKY 5000 L. B. Wilson, Inc., 6th & Madison Sts., Covington, Ky. "Mabley & Carew Cincinnati's Most Popular Store." (NBC).

### 1500 kilocycles 199.9 meters

- KDB 100 Santa Barbara Broadcasters, Ltd., 15-17 East Haley St., Santa Barbara, Calif. "The Don Lee Station." (CBS).  
 KGFI 100 Eagle Broadcasting Co., Inc., P.O. Box 1508, Corpus Christi, Texas. "Voice of Corpus Christi." (Plaza Hotel).  
 KGFK 100 Red River Broadcasting Co., Inc., 722 Center Ave., Moorhead, Minn. (Comstock Hotel).  
 KGIZ 100 Grant City Park Corp., Grant City, Mo. "The Voice of Rainbow Park."  
 KGKB 100 East Texas Broadcasting Co., Tyler Commercial College, Tyler, Texas. "Friendly Voice of East Texas."  
 KGKY 100 Hilliard Co., Inc., 1517 1/2 Broadway, Scottsbluff, Neb. "KGKY, the Voice of the North Platte Valley."  
 KNOW 100 KUT Broadcasting Co., Driskill Hotel, Austin, Texas. "KNOW, Austin's Own Radio Station with Studios in the Driskill Hotel."  
 KPJM 100 Scott and Sturm, Union & Cortez Sts., Prescott, Ariz. "Voice of the Mile-Hi City."  
 KPQ 100 Westcoast Broadcasting Co., Cascadian Hotel, Wenatchee, Wash. "Command the Air and You Command the Market."  
 KREG 100 Voice of Orange Empire, Inc., 3rd & Sycamore Sts., Santa Ana, Calif.  
 KXO 100 E. R. Irey and F. M. Bowles, 893 Main St., El Centro, Calif.  
 WFDV 100 Rome Broadcasting Corp., 10 Third Ave., Rome, Ga. "Voice of Seven Hills."  
 WHEF 100 Attala Milling and Produce Co., 417 West Adams St., Kosciusko, Miss.  
 WKBV 100 William O. Knox, Box 286, Connersville, Ind.  
 WKBZ 100 K. L. Ashbacher, First National Bank & Trust Co. Bldg., Ludington, Mich. "Ludington on the Lake, the Little City Wide Awake."  
 WKEU 100 Marshall and Malcolm, La Grange, Ga.  
 WLOE 100 Boston Broadcasting Co., 21 Beacon St., Boston, Mass. "Greater Boston's Only Local Radio Station." (Hotel Bellevue).  
 WMBQ 100 Paul J. Gollhofer, 95 Leonard St., Brooklyn, N. Y. "Home Sweet Home."  
 WMIL 100 Arthur Fiske, 1525 Pittkin Ave., Brooklyn, N. Y. "Brooklyn's Premier Independent Broadcasting Station."  
 WMPC 100 The First Methodist Protestant Church, 81 Liberty St., Lapeer, Mich. "Where Many Preach Christ."  
 WNBW 100 Howitt-Wood Radio Co., Inc., Arlington Hotel, Binghamton, N. Y.  
 WOPI 100 Radiophone Broadcasting Station WOPI, Inc., 22nd & State Sts., Bristol, Tenn. "Voice of the Appalachians."  
 WPEN 100 Wm. Penn Broadcasting Co., 217 So. Broad St., Philadelphia, Pa.  
 WRDW 100 Musicove, Inc., 309 Eighth St., Augusta, Ga. "The Voice of Augusta, Ga." (Relays WLW).  
 WSYB 100 Philip Weiss Music Co., 80 West St., Rutland, Vt.  
 WYRL 100 Long Island Broadcasting Co., 4130-58th St., Woodside, N. Y. "The Voice of Queens County." (NNRC tips).  
 WWSW 100 Walker and Downing Radio Corp., Hotel Schenley, Pittsburgh, Pa.  
 XEFZ 100 Manuel Zetina, Coyoacan, Mexico City, Mexico.

## TIME CONVERSION TABLE

	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
Atlantic												
Eastern	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
Central	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
Mountain	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
Pacific	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00

INDEX BY CALL LETTERS

<b>CFAC</b> 690	Calgary, Alta., <i>MST.</i>	<b>CMCD</b> 1140	Havana, Cuba, <i>EST.</i>	<b>KFH</b> 1300	Wichita, Kans., <i>CST.</i>
<b>CFBO</b> 890	St. John, N. B.	<b>CMCF</b> 890	Havana, Cuba, <i>EST.</i>	<b>KFI</b> 640	Los Angeles, Calif., <i>PST.</i>
<b>CFCA</b> 1120	Toronto, Ont., <i>EST.</i>	<b>CMCH</b> 1405	Havana, Cuba, <i>EST.</i>	<b>KFIO</b> 1120	Spokane, Wash., <i>PST.</i>
<b>CFCF</b> 1030	Montreal, Que., <i>EST.</i>	<b>CMCJ</b> 1185	Havana, Cuba.	<b>KFIZ</b> 1420	Fond du Lac, Wis., <i>CST.</i>
<b>CFCH</b> 910	North Bay, Ont., <i>EST.</i>	<b>CMCM</b> 1405	Havana, Cuba.	<b>KFJB</b> 1200	Marshalltown, Iowa.
<b>CFCN</b> 985	Calgary, Alta., <i>MST.</i>	<b>CMCN</b> 925	Havana, Cuba.	<b>KFJI</b> 1210	Klamath Falls, Ore.
<b>CFCO</b> 1010	Chatham, Ont., <i>EST.</i>	<b>CMCQ</b> 780	Havana, Cuba.	<b>KFJM</b> 1370	Grand Forks, N. D.
<b>CFCT</b> 630	Victoria, B. C., <i>PST.</i>	<b>CMCR</b> 1385	Havana, Cuba.	<b>KFJR</b> 1300	Portland, Ore., <i>PST.</i>
<b>CFCY</b> 580	Charlottetown, P. E. I.	<b>CMCU</b> 630	Havana, Cuba.	<b>KFJZ</b> 1370	Fort Worth, Texas, <i>CST.</i>
<b>CFJC</b> 1120	Kamloops, B. C., <i>PST.</i>	<b>CMCW</b> 965	Havana, Cuba, <i>EST.</i>	<b>KFKA</b> 880	Greeley, Colo., <i>MST.</i>
<b>CFLE</b> 915	Prescott, Ont., <i>EST.</i>	<b>CMCY</b> 1010	Havana, Cuba.	<b>KFKU</b> 1020	Lawrence, Kans., <i>CST.</i>
<b>CFNB</b> 1210	Fredricton, N.B., <i>AST.</i>	<b>CMDB</b> 1325	Havana, Cuba, <i>EST.</i>	<b>KFKX</b> 1220	Chicago, Ill.
<b>CFQC</b> 910	Saskatoon, Sask.	<b>CMDE</b> 1385	Havana, Cuba.	<b>KFLV</b> 1470	Rockford, Ill., <i>CST.</i>
<b>CFRB</b> 690	Toronto, Ont., <i>EST.</i>	<b>CMDD</b> 595	Havana, Cuba.	<b>KFLW</b> 1350	Galveston, Texas.
<b>CFRC</b> 930	Kingston, Ont., <i>EST.</i>	<b>CMDE</b> 925	Havana, Cuba.	<b>KFLX</b> 1250	Northfield, Minn., <i>CST.</i>
<b>CHCH</b> 1200	Montreal, Que.	<b>CMGA</b> 834	Colon, Cuba.	<b>KFNH</b> 690	Shenandoah, Iowa, <i>CST.</i>
<b>CHCK</b> 960	Charlottetown, P. E. I.	<b>CMGB</b> 1205	Matanzas, Cuba.	<b>KFOR</b> 1210	Lincoln, Neb., <i>CST.</i>
<b>CHGS</b> 1120	Summerside, P. E. I.	<b>CMGC</b> 820	Matanzas, Cuba.	<b>KFOX</b> 1250	Long Beach, Calif., <i>PST.</i>
<b>CHHP</b> 1200	Montreal, Que.	<b>CMGE</b> 1375	Cardenas, Cuba, <i>EST.</i>	<b>KFPL</b> 1310	Dublin, Texas, <i>CST.</i>
<b>CHLS</b> 730	Vancouver, B. C., <i>PST.</i>	<b>CMGF</b> 987	Matanzas, Cuba.	<b>KFPM</b> 1310	Greenville, Texas, <i>CST.</i>
<b>CHMA</b> 580	Edmonton, Alta., <i>MST.</i>	<b>CMGH</b> 1040	Matanzas, Cuba.	<b>KFPW</b> 1210	Fort Smith, Ark., <i>CST.</i>
<b>CHML</b> 880	Hamilton, Ont., <i>EST.</i>	<b>CMHG</b> 790	Tainuca, Cuba.	<b>KFPY</b> 1340	Spokane, Wash., <i>PST.</i>
<b>CHNC</b> 840	Toronto, Ont.	<b>CMHD</b> 950	Caibarien, Cuba.	<b>KFQD</b> 1230	Anchorage, Alaska.
<b>CHNS</b> 815	Halifax, N. S., <i>AST.</i>	<b>CMHI</b> 1030	Santa Clara, Cuba, <i>EST.</i>	<b>KFRG</b> 610	San Francisco, Calif.
<b>CHRC</b> 645	Quebec, Que., <i>EST.</i>	<b>CMHJ</b> 1125	Cienfuegos, Cuba, <i>EST.</i>	<b>KFRU</b> 630	Columbia, Mo., <i>CST.</i>
<b>CHWC</b> 960	Regina, Sask., <i>MST.</i>	<b>CMHK</b> 1225	Cruces, Cuba.	<b>KFSD</b> 600	San Diego, Calif., <i>PST.</i>
<b>CHWK</b> 665	Chilliwack, B. C., <i>PST.</i>	<b>CMHL</b> 1290	Cienfuegos, Cuba.	<b>KFSG</b> 1120	Los Angeles, Calif., <i>PST.</i>
<b>CHYC</b> 730	Montreal, Que.	<b>CMJG</b> 1382	Camaguey, Cuba.	<b>KFUL</b> 1290	Galveston, Texas, <i>CST.</i>
<b>CJCA</b> 745	Edmonton, Alta., <i>MST.</i>	<b>CMJE</b> 1175	Camaguey, Cuba.	<b>KFUO</b> 550	St. Louis, Mo., <i>CST.</i>
<b>CJCB</b> 880	Sydney, N. S., <i>AST.</i>	<b>CMJF</b> 930	Camaguey, Cuba.	<b>KFVU</b> 1000	Los Angeles, Calif., <i>PST.</i>
<b>CJCC</b> 690	Calgary, Alta., <i>MST.</i>	<b>CMJG</b> 1050	Camaguey, Cuba.	<b>KFVS</b> 1210	Cape Girardeau, Mo.
<b>CJGC</b> 595	London, Ont., <i>EST.</i>	<b>CMJH</b> 1150	Ciego de Avila, Cuba.	<b>KFWB</b> 950	Los Angeles, Calif., <i>PST.</i>
<b>CJGX</b> 630	Yorkton, Sask., <i>CST.</i>	<b>CMJI</b> 1335	Ciego de Avila, Cuba.	<b>KFWF</b> 1200	St. Louis, Mo., <i>CST.</i>
<b>CJOC</b> 1120	Lethbridge, Alta., <i>MST.</i>	<b>CMJK</b> 790	Camaguey, Cuba.	<b>KFWI</b> 930	San Francisco, Calif.
<b>CJOR</b> 1210	Vancouver, B. C., <i>PST.</i>	<b>CMJL</b> 960	Camaguey, Cuba.	<b>KFXD</b> 1200	Nampa, Idaho, <i>MST.</i>
<b>CJRM</b> 665	Moose Jaw, Sask., <i>MST.</i>	<b>CMJN</b> 1240	Camaguey, Cuba.	<b>KFXF</b> 920	Denver, Colo., <i>MST.</i>
<b>CJRW</b> 665	Fleming, Sask., <i>MST.</i>	<b>CMJO</b> 1110	Ciego de Avila, Cuba.	<b>KFJX</b> 1200	Grand Jct., Colo., <i>MST.</i>
<b>CKAC</b> 730	Montreal, Que., <i>EST.</i>	<b>CMJP</b> 1360	Moron, Cuba.	<b>KFXM</b> 1210	San Bernardino, Calif.
<b>CKCD</b> 730	Vancouver, B. C.	<b>CMJK</b> 730	Havana, Cuba, <i>EST.</i>	<b>KFRX</b> 1310	Oklahoma City, Okla.
<b>CKCI</b> 645	Quebec, Que., <i>EST.</i>	<b>CMKC</b> 1034	Santiago, Cuba.	<b>KFYO</b> 1310	Lubbock, Texas, <i>CST.</i>
<b>CKCK</b> 960	Regina, Sask., <i>MST.</i>	<b>CMKJ</b> 1300	Guantanamo, Cuba.	<b>KFYY</b> 550	Bismarck, N. D., <i>CST.</i>
<b>CKCL</b> 580	Toronto, Ont., <i>EST.</i>	<b>CMQ</b> 630	Havana, Cuba.	<b>KGA</b> 1470	Spokane, Wash., <i>PST.</i>
<b>CKCO</b> 890	Ottawa, Ont.	<b>CMW</b> 590	Havana, Cuba, <i>EST.</i>	<b>KGBR</b> 1370	Tucson, Ariz., <i>MST.</i>
<b>CKCR</b> 645	Waterloo, Ont., <i>EST.</i>	<b>CMX</b> 890	Havana, Cuba, <i>EST.</i>	<b>KGB</b> 1300	San Diego, Calif., <i>PST.</i>
<b>CKCQ</b> 880	Quebec, Que., <i>EST.</i>	<b>CNRA</b> 630	Moneton, N. B., <i>AST.</i>	<b>KGBU</b> 930	Ketchikan, Alaska.
<b>CKFC</b> 730	Vancouver, B. C.	<b>CNRH</b> 815	Halifax, N. S., <i>AST.</i>	<b>KGBX</b> 1300	Springfield, Mo., <i>CST.</i>
<b>CKGW</b> 840	Toronto, Ont., <i>EST.</i>	<b>CNRO</b> 600	Ottawa, Ont., <i>EST.</i>	<b>KGBZ</b> 930	York, Neb., <i>CST.</i>
<b>CKIC</b> 1010	Wolffville, N. S., <i>AST.</i>	<b>CNRV</b> 1030	Vancouver, B. C., <i>PST.</i>	<b>KGCA</b> 1270	Decorah, Iowa, <i>CST.</i>
<b>CKLC</b> 840	Red Deer, Alta., <i>MST.</i>	<b>CPRY</b> 840	Toronto, Ont., <i>EST.</i>	<b>KGCR</b> 1210	Watertown, S. D., <i>CST.</i>
<b>CKMC</b> 1210	Colbit, Ont., <i>EST.</i>	<b>HKH</b> 920	Port-au-Prince, Haiti.	<b>KGCU</b> 1240	Mandan, N. D., <i>MST.</i>
<b>CKMO</b> 730	Vancouver, B. C.	<b>HIX</b> 579	Santo Domingo, <i>EST.</i>	<b>KGCX</b> 1310	Wolf Point, Mont., <i>MST.</i>
<b>CKNC</b> 960	Toronto, Ont., <i>EST.</i>	<b>HJN</b> 685	Bogota, Colombia.	<b>KGDA</b> 1370	Mitchell, S. D., <i>CST.</i>
<b>CKOC</b> 635	Hamilton, Ont., <i>EST.</i>	<b>KABC</b> 1420	San Antonio, Tex., <i>CST.</i>	<b>KGDE</b> 1200	Fergus Falls, Minn.
<b>CKOK</b> 540	Windsor, Ont., <i>EST.</i>	<b>KALE</b> 1300	Portland, Ore., <i>PST.</i>	<b>KGDM</b> 1100	Stockton, Calif., <i>PST.</i>
<b>CKOV</b> 1200	Kelowna, B. C., <i>PST.</i>	<b>KARK</b> 890	Little Rock, Ark., <i>CST.</i>	<b>KGDY</b> 1340	Huron, S. D., <i>CST.</i>
<b>CKPC</b> 930	Preston, Ont., <i>EST.</i>	<b>KASA</b> 1210	Elk City, Okla., <i>CST.</i>	<b>KGEE</b> 1200	Yuma, Colo., <i>MST.</i>
<b>CKPR</b> 890	Ft. William, Ont., <i>EST.</i>	<b>KBPS</b> 1420	Portland, Ore., <i>PST.</i>	<b>KGER</b> 1360	Long Beach, Calif., <i>PST.</i>
<b>CKTB</b> 635	St. Catharines, Ont.	<b>KBTM</b> 1200	Paragould, Ark., <i>CST.</i>	<b>KGEW</b> 1200	Ft. Morgan, Colo., <i>MST.</i>
<b>CKUA</b> 580	Edmonton, Alta., <i>MST.</i>	<b>KCMC</b> 1420	Texarkana, Ark., <i>CST.</i>	<b>KGEZ</b> 1310	Kalispell, Mont., <i>MST.</i>
<b>CKWX</b> 730	Vancouver, B. C., <i>PST.</i>	<b>KCRC</b> 1370	Enid, Okla., <i>CST.</i>	<b>KGFF</b> 1420	Shawnee, Okla., <i>CST.</i>
<b>CKX</b> 930	Brandon, Man., <i>CST.</i>	<b>KCRJ</b> 1310	Jerome, Ariz., <i>MST.</i>	<b>KGFG</b> 1370	Oklahoma City, Okla.
<b>CKY</b> 780	Winnipeg, Man., <i>CST.</i>	<b>KDB</b> 1500	Santa Barbara, Calif.	<b>KGFI</b> 1500	Corpus Christi, Texas.
<b>CMAB</b> 1249	Pinar del Rio, Cuba.	<b>KDFN</b> 1440	Casper, Wyo., <i>MST.</i>	<b>KGFJ</b> 1200	Los Angeles, Calif.
<b>CMAF</b> 680	Havana, Cuba, <i>EST.</i>	<b>KDKA</b> 980	Pittsburgh, Pa., <i>EST.</i>	<b>KGFK</b> 1500	Moorhead, Minn., <i>CST.</i>
<b>CMAY</b> 965	Havana, Cuba.	<b>KDLR</b> 1210	Devils Lake, N. D., <i>CST.</i>	<b>KGFL</b> 1370	Santa Fe, N. M., <i>MST.</i>
<b>CMBC</b> 1270	Havana, Cuba, <i>EST.</i>	<b>KDYL</b> 1290	Salt Lake City, Utah.	<b>KGFV</b> 1310	Kearney, Neb., <i>CST.</i>
<b>CMBD</b> 965	Havana, Cuba.	<b>KECA</b> 1430	Los Angeles, Calif., <i>PST.</i>	<b>KGFX</b> 630	Pierre, S. D.
<b>CMBF</b> 1325	Havana, Cuba.	<b>KELW</b> 780	Burbank, Calif., <i>PST.</i>	<b>KGGC</b> 1420	San Francisco, Calif.
<b>CMBG</b> 1070	Havana, Cuba.	<b>KERN</b> 1200	Bakersfield, Calif., <i>PST.</i>	<b>KGGF</b> 1010	Coffeyville, Kans., <i>CST.</i>
<b>CMBJ</b> 1140	Havana, Cuba.	<b>KEX</b> 1180	Portland, Ore., <i>PST.</i>	<b>KGGM</b> 1230	Albuquerque, N. M.
<b>CMBK</b> 1485	Havana, Cuba.	<b>KFAB</b> 770	Lincoln, Neb., <i>CST.</i>	<b>KGHF</b> 1230	Pueblo, Colo., <i>MST.</i>
<b>CMBL</b> 1445	Havana, Cuba, <i>EST.</i>	<b>KFAC</b> 1300	Los Angeles, Calif., <i>PST.</i>	<b>KGHI</b> 1200	Little Rock, Ark., <i>CST.</i>
<b>CMBN</b> 1185	Havana, Cuba, <i>EST.</i>	<b>KFBB</b> 1280	Great Falls, Mont., <i>MST.</i>	<b>KGHL</b> 950	Billings, Mont., <i>MST.</i>
<b>CMBR</b> 1485	Havana, Cuba.	<b>KFBI</b> 1050	Abilene, Kans., <i>CST.</i>	<b>KGIR</b> 1360	Butte, Mont., <i>MST.</i>
<b>CMBS</b> 785	Havana, Cuba.	<b>KFBK</b> 1310	Sacramento, Calif., <i>PST.</i>	<b>KGIW</b> 1420	Trinidad, Colo., <i>MST.</i>
<b>CMBW</b> 920	Havana, Cuba.	<b>KFBL</b> 1370	Everett, Wash., <i>PST.</i>	<b>KGIX</b> 1420	Las Vegas, Nev., <i>PST.</i>
<b>CMBY</b> 1230	Havana, Cuba.	<b>KFDM</b> 560	Beaumont, Tex., <i>CST.</i>	<b>KGIZ</b> 1500	Grant City, Mo., <i>CST.</i>
<b>CMBZ</b> 1010	Havana, Cuba, <i>EST.</i>	<b>KFD</b> 550	Brookings, S. D., <i>CST.</i>	<b>KGKB</b> 1500	Tyler, Texas, <i>CST.</i>
<b>CMC</b> 840	Havana, Cuba.	<b>KFEL</b> 920	Denver, Colo., <i>MST.</i>	<b>KGKL</b> 1370	San Angelo, Texas, <i>CST.</i>
<b>CMCA</b> 1230	Havana, Cuba.	<b>KFEQ</b> 680	St. Joseph, Mo., <i>CST.</i>	<b>KGKO</b> 570	Wichita Falls, Texas.
<b>CMCB</b> 1070	Havana, Cuba, <i>EST.</i>	<b>KFGQ</b> 1310	Boone, Iowa, <i>CST.</i>	<b>KGKX</b> 1420	Lewiston, Idaho.

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<b>KGKY</b> 1500	Scottsbluff, Neb., <i>MST.</i>	<b>KSTP</b> 1460	St. Paul, Minn., <i>CST.</i>	<b>WBHS</b> 1200	Huntsville, Ala., <i>CST.</i>
<b>KGMB</b> 1320	Honolulu, Hawaii.	<b>KTAB</b> 560	San Francisco, Calif.	<b>WBIG</b> 1440	Greensboro, N. C., <i>EST.</i>
<b>KGFN</b> 1430	North Platte, Neb.	<b>KTAR</b> 620	Phoenix, Ariz., <i>MST.</i>	<b>WBXN</b> 1350	New York City, <i>EST.</i>
<b>KGNO</b> 1210	Dodge City, Kans.	<b>KTAT</b> 1240	Ft. Worth, Texas.	<b>WBQX</b> 860	New York City.
<b>KGO</b> 790	San Francisco, Calif.	<b>KTBS</b> 1450	Shreveport, La., <i>CST.</i>	<b>WBVO</b> 1310	Terre Haute, Ind., <i>CST.</i>
<b>KGRS</b> 1410	Amarillo, Texas, <i>CST.</i>	<b>KTFI</b> 1420	Twin Falls, Idaho, <i>MST.</i>	<b>WBRC</b> 930	Birmingham, Ala., <i>CST.</i>
<b>KGU</b> 750	Honolulu, Hawaii.	<b>KTHS</b> 1040	Hot Springs, Ark., <i>CST.</i>	<b>WBRE</b> 1310	Wilkes Barre, Pa.
<b>KGVO</b> 1200	Missoula, Mont., <i>MST</i>	<b>KTM</b> 780	Los Angeles, Calif., <i>PST.</i>	<b>WBSE</b> 920	Babson Park, Mass.
<b>KGW</b> 620	Portland, Ore., <i>PST.</i>	<b>KTRH</b> 1120	Houston, Texas, <i>CST.</i>	<b>WBT</b> 1080	Charlotte, N. C., <i>EST.</i>
<b>KGY</b> 1210	Olympia, Wash., <i>PST.</i>	<b>KTSA</b> 1290	San Antonio, Tex., <i>CST.</i>	<b>WBTM</b> 1370	Danville, Va., <i>EST.</i>
<b>KHJ</b> 900	Los Angeles, Calif., <i>PST.</i>	<b>KTSM</b> 1310	El Paso, Texas.	<b>WBZ</b> 990	Boston, Mass., <i>EST.</i>
<b>KHQ</b> 590	Spokane, Wash., <i>PST.</i>	<b>KTW</b> 1220	Seattle, Wash.	<b>WBZA</b> 990	Springfield, Mass., <i>EST.</i>
<b>KICA</b> 1370	Clovis, N. M.	<b>KUJ</b> 1370	Walla Walla, Wash.	<b>WCAD</b> 600	Storrs, Conn., <i>EST.</i>
<b>KICK</b> 1420	Red Oak, Iowa	<b>KUMA</b> 1470	Yuma, Ariz., <i>MST.</i>	<b>WCAG</b> 1220	Canton, N. Y., <i>EST.</i>
<b>KID</b> 1320	Idaho Falls, Idaho, <i>MST.</i>	<b>KUOA</b> 1390	Fayetteville, Ark., <i>CST.</i>	<b>WCAE</b> 1220	Pittsburgh, Pa., <i>EST.</i>
<b>KIDO</b> 1350	Boise, Idaho, <i>MST.</i>	<b>KUSD</b> 890	Vermillion, S. D., <i>CST.</i>	<b>WCAH</b> 1430	Columbus, Ohio, <i>EST.</i>
<b>KIDW</b> 1420	Lamar, Colo., <i>MST.</i>	<b>KVI</b> 570	Tacoma, Wash., <i>PST.</i>	<b>WCAJ</b> 590	Lincoln, Neb., <i>CST.</i>
<b>KIEM</b> 1210	Eureka, Calif., <i>PST.</i>	<b>KVL</b> 1370	Seattle, Wash.	<b>WCAL</b> 1250	Northfield, Minn., <i>CST.</i>
<b>KIEV</b> 850	Glendale, Calif., <i>PST.</i>	<b>KVOA</b> 1260	Tucson, Ariz.	<b>WCAM</b> 1280	Camden, N. J., <i>EST.</i>
<b>KIFH</b> 1310	Juneau, Alaska	<b>KVOO</b> 1140	Tulsa, Okla., <i>CST.</i>	<b>WCAM</b> 600	Baltimore, Md., <i>EST.</i>
<b>KIT</b> 1310	Yakima, Wash., <i>PST.</i>	<b>KVOR</b> 1270	Colorado Springs, Colo.	<b>WCAP</b> 1280	Asbury Park, N. J., <i>EST.</i>
<b>KJBS</b> 1070	San Francisco, Calif.	<b>KVOS</b> 1200	Bellingham, Wash.	<b>WCAT</b> 1200	Rapid City, S. D., <i>CST.</i>
<b>KJR</b> 970	Seattle, Wash., <i>PST.</i>	<b>KWCR</b> 1420	Cedar Rapids, Ia., <i>CST.</i>	<b>WCAU</b> 1170	Philadelphia, Pa., <i>EST.</i>
<b>KLCN</b> 1290	Blytheville, Ark.	<b>KWEA</b> 1210	Shreveport, La.	<b>WCBX</b> 1200	Burlington, Vt., <i>EST.</i>
<b>KLO</b> 1400	Ogden, Utah.	<b>KWG</b> 1200	Stockton, Calif., <i>PST.</i>	<b>WCBA</b> 1070	Carthage, Ill., <i>CST.</i>
<b>KLPM</b> 1240	Minot, N. D., <i>CST.</i>	<b>KWJJ</b> 1060	Portland, Ore.	<b>WCBA</b> 1440	Allentown, Pa., <i>EST.</i>
<b>KLRA</b> 1390	Little Rock, Ark., <i>CST.</i>	<b>KWKS</b> 1350	St. Louis, Mo., <i>CST.</i>	<b>WCBD</b> 1080	Zion, Ill., <i>CST.</i>
<b>KLS</b> 1440	Oakland, Calif., <i>PST.</i>	<b>KWK</b> 1370	Kansas City, Mo.	<b>WCBS</b> 1370	Baltimore, Md., <i>EST.</i>
<b>KLX</b> 880	Oakland, Calif., <i>PST.</i>	<b>KWKH</b> 850	Shreveport, La., <i>CST.</i>	<b>WCBS</b> 1210	Springfield, Ill., <i>CST.</i>
<b>KLZ</b> 560	Denver, Colo., <i>MST.</i>	<b>KWLC</b> 1270	Decorah, Iowa, <i>CST.</i>	<b>WCBO</b> 810	Minneapolis, Minn.
<b>KMA</b> 930	Shenandoah, Iowa, <i>CST.</i>	<b>KWSC</b> 1220	Pullman, Wash., <i>PST.</i>	<b>WCDA</b> 1350	New York City, <i>EST.</i>
<b>KMAC</b> 1370	San Antonio, Tex., <i>CST.</i>	<b>KWVG</b> 1260	Brownsville, Texas.	<b>WCFL</b> 970	Chicago, Ill., <i>CST.</i>
<b>KMBC</b> 950	Kansas City, Mo., <i>CST.</i>	<b>KXA</b> 780	Seattle, Wash., <i>PST.</i>	<b>WCGU</b> 1400	Brooklyn, N. Y., <i>EST.</i>
<b>KMBD</b> 1310	Medford, Ore., <i>PST.</i>	<b>KXL</b> 1420	Portland, Ore., <i>PST.</i>	<b>WCKY</b> 1490	Covington, Ky., <i>CST.</i>
<b>KMJ</b> 580	Fresno, Calif., <i>PST.</i>	<b>KXO</b> 1500	El Centro, Calif.	<b>WCLC</b> 1200	Janesville, Wis., <i>EST.</i>
<b>KMLB</b> 1200	Monroe, La., <i>CST.</i>	<b>KXRO</b> 1310	Aberteen, Wash., <i>PST.</i>	<b>WCLS</b> 1310	Joliet, Ill., <i>CST.</i>
<b>KMMJ</b> 740	Clay Center, Neb., <i>CST.</i>	<b>KXYZ</b> 1440	Houston, Texas, <i>CST.</i>	<b>WCDA</b> 1340	Pensacola, Fla., <i>CST.</i>
<b>KMO</b> 1330	Tacoma, Wash., <i>PST.</i>	<b>KYA</b> 1230	San Francisco, Calif.	<b>WCDC</b> 880	Meridian, Miss., <i>CST.</i>
<b>KMXP</b> 1090	St. Louis, Mo., <i>CST.</i>	<b>KYW</b> 1020	Chicago, Ill., <i>CST.</i>	<b>WCOD</b> 1200	Harrisburg, Pa., <i>EST.</i>
<b>KMPC</b> 710	Beverly Hills, Calif.	<b>KZRM</b> 618.5	Manila, P. I.	<b>WCOR</b> 1210	Chicago, Ill., <i>CST.</i>
<b>KMTR</b> 570	Hollywood, Calif., <i>PST.</i>	<b>NAA</b> 690	Arlington, Va.	<b>WCSC</b> 1360	Charleston, S. C., <i>EST.</i>
<b>KNOW</b> 1500	Austin, Texas, <i>CST.</i>	<b>RUS</b> 684	Salvador.	<b>WCSD</b> 940	Portland, Maine, <i>EST.</i>
<b>KNX</b> 1050	Hollywood, Calif., <i>PST.</i>	<b>TGR</b> 911	San Jose, C. R.	<b>WDAE</b> 1220	Tampa, Fla., <i>EST.</i>
<b>KOA</b> 830	Denver, Colo., <i>MST.</i>	<b>VOAS</b> 885	Glace Bay, N. S., <i>AST.</i>	<b>WDAF</b> 610	Kansas City, Mo., <i>CST.</i>
<b>KOAC</b> 550	Corvallis, Ore., <i>PST.</i>	<b>VOAS</b> 810	St. Johns, N. F.	<b>WDAG</b> 1410	Amarillo, Texas, <i>EST.</i>
<b>KOB</b> 1180	Albuquerque, N. M.	<b>VOGY</b> 890	St. Johns, N. F.	<b>WDAH</b> 1310	El Paso, Texas.
<b>KOCW</b> 1400	Chickasha, Okla.	<b>VOHW</b> 1300	St. Johns, N. F.	<b>WDAS</b> 1370	Philadelphia, Pa., <i>EST.</i>
<b>KOH</b> 1380	Reno, Nev., <i>PST.</i>	<b>VONF</b> 1195	St. Johns, N. F.	<b>WDAY</b> 940	Fargo, N. D., <i>CST.</i>
<b>KOIL</b> 1260	Council Bluffs, Ia., <i>CST.</i>	<b>VOWR</b> 750	St. Johns, N. F.	<b>WDBJ</b> 930	Roanoke, Va., <i>EST.</i>
<b>KOIN</b> 940	Portland, Ore., <i>PST.</i>	<b>WAAB</b> 1410	Boston, Mass., <i>EST.</i>	<b>WDBO</b> 580	Orlando, Fla., <i>EST.</i>
<b>KOL</b> 1270	Seattle, Wash., <i>PST.</i>	<b>WAAF</b> 920	Chicago, Ill., <i>CST.</i>	<b>WDEL</b> 1120	Wilmingon, Del., <i>EST.</i>
<b>KOMA</b> 1480	Oklahoma City, Okla.	<b>WAAM</b> 1250	Newark, N. J., <i>EST.</i>	<b>WDEV</b> 550	Waterbury, Vt., <i>EST.</i>
<b>KOMO</b> 920	Seattle, Wash., <i>PST.</i>	<b>WAAT</b> 940	Jersey City, N. J., <i>EST.</i>	<b>WDGY</b> 1180	Minneapolis, Minn.
<b>KONO</b> 1370	San Antonio, Tex., <i>CST.</i>	<b>WAAB</b> 660	Omaha, Neb., <i>CST.</i>	<b>WDDO</b> 1280	Chattanooga, Tenn.
<b>KOOS</b> 1420	Ma-shfield, Ore., <i>PST.</i>	<b>WABC</b> 860	New York City, <i>EST.</i>	<b>WDRC</b> 1330	Hartford, Conn., <i>EST.</i>
<b>KOY</b> 1390	Eugene, Ore., <i>PST.</i>	<b>WABI</b> 1200	Bangor, Maine, <i>EST.</i>	<b>WDSU</b> 1250	New Orleans, La., <i>CST.</i>
<b>KPCB</b> 650	Phoenix, Ariz., <i>MST.</i>	<b>WACO</b> 1240	Waco, Texas, <i>CST.</i>	<b>WDZ</b> 1070	Tuscola, Ill., <i>CST.</i>
<b>KPCB</b> 650	Seattle, Wash., <i>PST.</i>	<b>WADC</b> 1320	Akron, Ohio, <i>EST.</i>	<b>WEAF</b> 660	New York City, <i>EST.</i>
<b>KPJM</b> 1500	Prescott, Ariz., <i>MST.</i>	<b>WAGM</b> 1420	Presque Isle, Me., <i>EST.</i>	<b>WEAN</b> 780	Providence, R. I., <i>EST.</i>
<b>KPO</b> 680	San Francisco, Calif.	<b>WAIU</b> 640	Columbus, Ohio, <i>EST.</i>	<b>WEAO</b> 570	Columbus, Ohio, <i>EST.</i>
<b>KPOF</b> 880	Denver, Colo., <i>MST.</i>	<b>WALR</b> 1210	Zanesville, Ohio, <i>EST.</i>	<b>WEBC</b> 1290	Superior, Wis., <i>EST.</i>
<b>KPPC</b> 1210	Pasadena, Calif., <i>PST.</i>	<b>WAMC</b> 1420	Anniston, Ala., <i>CST.</i>	<b>WEBR</b> 1210	Harrisburg, Ill., <i>EST.</i>
<b>KPQ</b> 1500	Wena'chee, Wash., <i>PST.</i>	<b>WAML</b> 1310	Laurel, Miss.	<b>WEBS</b> 1310	Buffalo, N. Y., <i>EST.</i>
<b>KPRC</b> 920	Houston, Texas, <i>CST.</i>	<b>WAPI</b> 1140	Birmingham, Ala., <i>CST.</i>	<b>WEDC</b> 1210	Chicago, Ill.
<b>KQV</b> 1380	Pittsburgh, Pa., <i>EST.</i>	<b>WASH</b> 1270	Gd. Rapids, Mich., <i>EST.</i>	<b>WEEI</b> 590	Boston, Mass., <i>EST.</i>
<b>KQW</b> 1010	San Jose, Calif., <i>PST.</i>	<b>WAWZ</b> 1350	Zarephath, N. J., <i>EST.</i>	<b>WEEU</b> 830	Reading, Pa., <i>EST.</i>
<b>KRE</b> 1370	Berkeley, Calif., <i>PST.</i>	<b>WAZL</b> 1420	Hazelton, Pa., <i>EST.</i>	<b>WEHC</b> 1350	Emory, Va., <i>EST.</i>
<b>KREG</b> 1500	Santa Ana, Calif., <i>PST.</i>	<b>WBAA</b> 1400	Lafayette, Ind., <i>CST.</i>	<b>WEHS</b> 1420	Cicero, Ill., <i>CST.</i>
<b>KRGV</b> 1260	Hartlingen, Texas, <i>CST.</i>	<b>WBAB</b> 1430	Harrisburg, Pa., <i>EST.</i>	<b>WELL</b> 1420	Battle Creek, Mich.
<b>KRKD</b> 1120	Los Angeles, Calif., <i>PST.</i>	<b>WBAL</b> 1060	Baltimore, Md., <i>EST.</i>	<b>WENC</b> 1420	Americus, Ga., <i>EST.</i>
<b>KRLD</b> 1040	Dallas, Texas, <i>CST.</i>	<b>WBAP</b> 800	Ft. Worth, Texas, <i>CST.</i>	<b>WENR</b> 870	Chicago, Ill., <i>CST.</i>
<b>KRMD</b> 1310	Shreveport, Iowa, <i>CST.</i>	<b>WBAX</b> 1210	Wilkes Barre, Pa., <i>EST.</i>	<b>WERE</b> 1420	Erie, Pa., <i>EST.</i>
<b>KROW</b> 930	Oakland, Calif., <i>PST.</i>	<b>WBBC</b> 1400	Brooklyn, N. Y., <i>EST.</i>	<b>WESG</b> 1040	Elmira, N. Y.
<b>KRSC</b> 1120	Seattle, Wash., <i>PST.</i>	<b>WBBL</b> 1210	Richmond, Va., <i>EST.</i>	<b>WEVD</b> 1300	New York City, <i>EST.</i>
<b>KRSC</b> 580	Manhattan, Kans., <i>CST.</i>	<b>WBMM</b> 770	Chicago, Ill., <i>CST.</i>	<b>WEVJ</b> 760	St. Louis, Mo., <i>CST.</i>
<b>KSCJ</b> 1330	Sioux City, Iowa, <i>CST.</i>	<b>WBRR</b> 1300	Brooklyn, N. Y., <i>EST.</i>	<b>WEXL</b> 1310	Royal Oak, Mich., <i>EST.</i>
<b>KSD</b> 550	St. Louis, Mo., <i>CST.</i>	<b>WBXX</b> 1200	New Orleans, La., <i>CST.</i>	<b>WFAA</b> 800	Dallas, Texas, <i>CST.</i>
<b>KSEI</b> 890	Pocatello, Idaho, <i>MST.</i>	<b>WBZZ</b> 1200	Ponca City, Okla., <i>CST.</i>	<b>WFAB</b> 1300	New York City, <i>EST.</i>
<b>KSL</b> 1130	Salt Lake City, Utah	<b>WBMC</b> 1410	Bay City, Mich., <i>EST.</i>	<b>WFAM</b> 1200	South Bend, Ind., <i>CST.</i>
<b>KSO</b> 1370	Des Moines, Iowa.	<b>WBEN</b> 900	Buffalo, N. Y., <i>EST.</i>	<b>WFAS</b> 1210	White Plains, N. Y.
<b>KSOO</b> 1110	Sioux Falls, S. D., <i>CST.</i>	<b>WBEO</b> 1310	Marquette, Mich., <i>CST.</i>	<b>WFBC</b> 1200	Greenville, S. C.

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<b>WFBE</b> 1200 Cincinnati, Ohio, <i>EST.</i>	<b>WJBK</b> 1370 Detroit, Mich., <i>EST.</i>	<b>WNBZ</b> 1290 Saranac Lake, N. Y.
<b>WFBG</b> 1310 Altoona, Pa.	<b>WJBL</b> 1200 Decatur, Ill., <i>CST</i>	<b>WNOX</b> 560 Knoxville, Tenn., <i>CST.</i>
<b>WFLB</b> 1360 Syracuse, N. Y., <i>EST.</i>	<b>WJBO</b> 1420 New Orleans, La.	<b>WNOY</b> 570 New York City, <i>EST.</i>
<b>WFBM</b> 1230 Indianapolis, Ind., <i>CST.</i>	<b>WJBU</b> 1210 Lewisburg, Pa., <i>EST.</i>	<b>WNAI</b> 1190 San Antonio, Tex., <i>CST.</i>
<b>WFRB</b> 1270 Baltimore, Md., <i>EST.</i>	<b>WJBW</b> 1200 New Orleans, La., <i>CST.</i>	<b>WOCU</b> 580 Charleston, W. Va., <i>EST.</i>
<b>WFDJ</b> 1310 Flint, Mich., <i>EST.</i>	<b>WJBY</b> 1210 Gadsden, Ala., <i>CST.</i>	<b>WOB</b> 1000 Davenport, Iowa, <i>CST.</i>
<b>WFDV</b> 1500 Rome, Ga., <i>CST.</i>	<b>WJDX</b> 1270 Jackson, Miss., <i>CST.</i>	<b>WOLC</b> 1210 Jamestown, N. Y., <i>EST.</i>
<b>WFEA</b> 1430 Manchester, N. H., <i>EST.</i>	<b>WJED</b> 1210 Hagerstown, Md.	<b>WODA</b> 1250 Paterson, N. J.
<b>WFI</b> 560 Philadelphia, Pa., <i>EST.</i>	<b>WJEQ</b> 1370 Williamsport, Pa.	<b>WODX</b> 1410 Mobile, Ala., <i>CST.</i>
<b>WFIW</b> 940 Hopkinsville, Ky., <i>EST.</i>	<b>WJFJ</b> 1130 Chicago, Ill., <i>CST.</i>	<b>WOI</b> 540 Ames, Iowa, <i>CST.</i>
<b>WFLA</b> 520 Clearwater, Fla., <i>EST.</i>	<b>WJKS</b> 1360 Gary, Ind., <i>CST.</i>	<b>WOKO</b> 1430 Albany, N. Y., <i>EST.</i>
<b>WFOX</b> 1400 Brooklyn, N. Y., <i>EST.</i>	<b>WJMS</b> 1420 Ironwood, Mich., <i>CST.</i>	<b>WOL</b> 1310 Washington, D. C., <i>EST.</i>
<b>WGAL</b> 1310 Lancaster, Pa., <i>EST.</i>	<b>WJR</b> 750 Detroit, Mich., <i>EST.</i>	<b>WOMT</b> 1210 Manitowoc, Wis., <i>CST.</i>
<b>WGAR</b> 1450 Cleveland, Ohio, <i>EST.</i>	<b>WJSV</b> 1460 Washington, D. C., <i>EST.</i>	<b>WOOD</b> 1270 Gd. Rapids, Mich., <i>EST.</i>
<b>WGBB</b> 1210 Freeport, N. Y., <i>EST.</i>	<b>WJTL</b> 1370 Atlanta, Ga., <i>CST.</i>	<b>WOPI</b> 1500 Bristol, Tenn., <i>EST.</i>
<b>WGBF</b> 530 Evansville, Ind., <i>CST.</i>	<b>WJW</b> 1210 Akron, Ohio, <i>EST.</i>	<b>WQJ</b> 1300 Kansas City, Mo., <i>CST.</i>
<b>WGBI</b> 890 Scranton, Pa., <i>EST.</i>	<b>WJZ</b> 760 New York City, <i>EST.</i>	<b>WOR</b> 710 Newark, N. J., <i>EST.</i>
<b>WGCM</b> 1210 Gulfport, Miss., <i>CST.</i>	<b>WKAQ</b> 1240 San Juan, P. R., <i>AST.</i>	<b>WORC</b> 1200 Worcester, Mass., <i>EST.</i>
<b>WGCP</b> 1250 Newark, N. J., <i>EST.</i>	<b>WKAR</b> 1040 E. Lansing, Mich., <i>EST.</i>	<b>WORK</b> 1000 York, Pa., <i>EST.</i>
<b>WGES</b> 1360 Chicago, Ill., <i>CST.</i>	<b>WKAV</b> 1310 Laconia, N. H., <i>EST.</i>	<b>WOS</b> 630 Jefferson City, Mo.
<b>WGHS</b> 1310 Newport News, Va.	<b>WKBB</b> 1310 Joliet, Ill., <i>CST.</i>	<b>WOV</b> 130 New York City, <i>EST.</i>
<b>WGL</b> 1370 Newports News, Va.	<b>WKBC</b> 1310 Birmingham, Ala.	<b>WOV</b> 580 Omaha, Neb., <i>CST.</i>
<b>WGLC</b> 1370 Hudson Falls, N. Y., <i>EST.</i>	<b>WKBF</b> 1400 Indianapolis, Ind., <i>CST.</i>	<b>WDWO</b> 1160 Fort Wayne, Ind., <i>CST.</i>
<b>WGN</b> 720 Chicago, Ill., <i>CST.</i>	<b>WKBS</b> 1380 LaCrosse, Wis., <i>CST.</i>	<b>WPAD</b> 1420 Paducah, Ky., <i>CST.</i>
<b>WGNV</b> 1210 Chester, N. Y., <i>EST.</i>	<b>WKBI</b> 1420 Cicero, Ill., <i>CST.</i>	<b>WPAP</b> 1010 New York City, <i>EST.</i>
<b>WGR</b> 550 Buffalo, N. Y., <i>EST.</i>	<b>WKBN</b> 570 Youngstown, Ohio, <i>EST.</i>	<b>WPAP</b> 1210 Providence, R. I., <i>EST.</i>
<b>WGST</b> 890 Atlanta, Ga., <i>CST.</i>	<b>WKBV</b> 1500 Connersville, Ind., <i>CST.</i>	<b>WPCC</b> 560 Chicago, Ill.
<b>WGY</b> 790 Schenectady, N. Y., <i>EST.</i>	<b>WKBW</b> 1480 Buffalo, N. Y., <i>EST.</i>	<b>WPCH</b> 810 New York City, <i>EST.</i>
<b>WHAA</b> 940 Madison, Wis., <i>CST.</i>	<b>WKBY</b> 1500 Ludington, Mich., <i>CST.</i>	<b>WPEN</b> 1500 Philadelphia, Pa., <i>EST.</i>
<b>WHAD</b> 1120 Milwaukee, Wis., <i>CST.</i>	<b>WKEU</b> 1500 LaGrange, Ga.	<b>WPFB</b> 1370 Hattiesburg, Miss., <i>CST.</i>
<b>WHAM</b> 1150 Rochester, N. Y., <i>EST.</i>	<b>WKFI</b> 1210 Greenville, Miss., <i>CST.</i>	<b>WPG</b> 1100 Atlantic City, N. J., <i>EST.</i>
<b>WHAS</b> 820 Louisville, Ky., <i>CST.</i>	<b>WKJC</b> 1200 Lancaster, Pa., <i>EST.</i>	<b>WPHR</b> 1200 Petersburg, Va., <i>EST.</i>
<b>WHAT</b> 1310 Philadelphia, Pa., <i>EST.</i>	<b>WKRC</b> 550 Cincinnati, Ohio, <i>EST.</i>	<b>WPOR</b> 780 Norfolk, Va.
<b>WHAZ</b> 1300 Troy, N. Y., <i>EST.</i>	<b>WKY</b> 900 Oklahoma City, Okla.	<b>WPRO</b> 1210 Providence, R. I., <i>EST.</i>
<b>WHB</b> 860 Kansas City, Mo., <i>CST.</i>	<b>WKZO</b> 590 Kalamazoo, Mich., <i>EST.</i>	<b>WPTF</b> 580 Raleigh, N. C., <i>EST.</i>
<b>WHBC</b> 1200 Canton, Ohio, <i>EST.</i>	<b>WLAC</b> 1470 Nashville, Tenn., <i>CST.</i>	<b>WQAM</b> 560 Miami, Fla., <i>EST.</i>
<b>WHBD</b> 1370 Mt. Orab, Ohio, <i>EST.</i>	<b>WLAP</b> 1200 Louisville, Ky., <i>CST.</i>	<b>WQAN</b> 880 Scranton, Pa., <i>EST.</i>
<b>WHBL</b> 1210 Rock Island, Ill., <i>CST.</i>	<b>WLB</b> 1250 Minneapolis, Minn., <i>CST.</i>	<b>WQAD</b> 1010 New York City, <i>EST.</i>
<b>WHBF</b> 1410 Sheboygan, Wis., <i>CST.</i>	<b>WLBC</b> 1310 Muncie, Ind., <i>CST.</i>	<b>WQBC</b> 1360 Vietsburg, Miss., <i>CST.</i>
<b>WHBQ</b> 1370 Memphis, Tenn., <i>CST.</i>	<b>WLBF</b> 1420 Kansas City, Kans., <i>CST.</i>	<b>WQDM</b> 1370 St. Albans, Vt., <i>EST.</i>
<b>WHBU</b> 1210 Anderson, Ind., <i>CST.</i>	<b>WLBL</b> 900 Stevens Point, Wis., <i>CST.</i>	<b>WQDX</b> 1210 Thomasville, Ga.
<b>WHBY</b> 1200 Green Bay, Wis., <i>CST.</i>	<b>WLBW</b> 1260 Erie, Pa., <i>EST.</i>	<b>WRAK</b> 1370 Williamsport, Pa., <i>EST.</i>
<b>WHDF</b> 1370 Calumet, Mich., <i>CST.</i>	<b>WLBZ</b> 620 Bangor, Maine, <i>EST.</i>	<b>WRAM</b> 1370 Wilmington, N. C., <i>EST.</i>
<b>WHDH</b> 830 Boston, Mass., <i>EST.</i>	<b>WLEC</b> 1340 Portland, Me., <i>EST.</i>	<b>WRAX</b> 1310 Reading, Pa., <i>EST.</i>
<b>WHDL</b> 1420 Tupper Lake, N. Y., <i>EST.</i>	<b>WLEY</b> 1370 Lexington, Mass., <i>EST.</i>	<b>WRAY</b> 1020 Philadelphia, Pa., <i>EST.</i>
<b>WHEB</b> 740 Portsmouth, N. H., <i>EST.</i>	<b>WLIT</b> 560 Philadelphia, Pa., <i>EST.</i>	<b>WRBL</b> 1200 Columbus, Ga., <i>CST.</i>
<b>WHEC</b> 1430 Rochester, N. Y., <i>EST.</i>	<b>WLOE</b> 1500 Boston, Mass., <i>EST.</i>	<b>WRBX</b> 1410 Roanoke, Va., <i>EST.</i>
<b>WHEF</b> 1500 Kosciusko, Miss.	<b>WLS</b> 870 Chicago, Ill., <i>CST.</i>	<b>WRC</b> 950 Washington, D. C., <i>EST.</i>
<b>WHET</b> 1210 Troy, Ala., <i>CST.</i>	<b>WLTH</b> 1400 Brooklyn, N. Y., <i>EST.</i>	<b>WRDO</b> 1370 Augusta, Maine, <i>EST.</i>
<b>WHFC</b> 1420 Cicero, Ill., <i>CST.</i>	<b>WLVA</b> 1370 Lynchburg, Va., <i>EST.</i>	<b>WRDW</b> 1500 Augusta, Ga., <i>EST.</i>
<b>WHIS</b> 1410 Bluefield, W. Va., <i>EST.</i>	<b>WLW</b> 700 Cincinnati, Ohio, <i>EST.</i>	<b>WREC</b> 600 Memphis, Tenn.
<b>WHK</b> 1390 Cleveland, Ohio, <i>EST.</i>	<b>WLWL</b> 1100 New York City., <i>EST.</i>	<b>WREN</b> 1220 Lawrence, Kans., <i>CST.</i>
<b>WHN</b> 1010 New York City, <i>EST.</i>	<b>WMAC</b> 570 Syracuse, N. Y.	<b>WRHM</b> 1250 Minneapolis, Minn., <i>CST.</i>
<b>WHO</b> 1000 Des Moines, Iowa.	<b>WMAI</b> 630 Washington, D. C., <i>EST.</i>	<b>WRJN</b> 1370 Racine, Wis., <i>CST.</i>
<b>WHOM</b> 1450 Jersey City, N. J., <i>EST.</i>	<b>WMAQ</b> 670 Chicago, Ill., <i>CST.</i>	<b>WRNY</b> 1010 New York City.
<b>WHP</b> 1430 Harrisburg, Pa., <i>EST.</i>	<b>WMAS</b> 1420 Springfield, Mass., <i>EST.</i>	<b>WROL</b> 1310 Knoxville, Tenn., <i>CST.</i>
<b>WIAS</b> 1310 Ottumwa, Iowa, <i>CST.</i>	<b>WMAZ</b> 1180 Macon, Ga., <i>EST.</i>	<b>WRR</b> 1200 Dallas, Texas, <i>CST.</i>
<b>WIBA</b> 1280 Madison, Wis., <i>CST.</i>	<b>WMBC</b> 1420 Detroit, Mich., <i>EST.</i>	<b>WRUF</b> 830 Gainesville, Fla., <i>EST.</i>
<b>WIBG</b> 930 Glenside, Pa., <i>EST.</i>	<b>WMBD</b> 1440 Peoria, Ill., <i>CST.</i>	<b>WRVA</b> 1110 Richmond, Va., <i>EST.</i>
<b>WIBM</b> 1370 Jackson, Mich., <i>EST.</i>	<b>WMBG</b> 1210 Richmond, Va., <i>EST.</i>	<b>WSAI</b> 1330 Cincinnati, Ohio, <i>EST.</i>
<b>WIBO</b> 560 Chicago, Ill., <i>CST.</i>	<b>WMBH</b> 1420 Joplin, Mo., <i>CST.</i>	<b>WSAJ</b> 1210 Grove City, Pa.
<b>WIBU</b> 1210 Poynette, Wis., <i>CST.</i>	<b>WMBI</b> 1080 Chicago, Ill., <i>CST.</i>	<b>WSAN</b> 1440 Allentown, Pa., <i>EST.</i>
<b>WIBW</b> 580 Topeka, Kans., <i>CST.</i>	<b>WMBQ</b> 1310 Auburn, N. Y., <i>EST.</i>	<b>WSAR</b> 1450 Fall River, Mass., <i>EST.</i>
<b>WIBX</b> 1200 Utica, N. Y.	<b>WMBR</b> 1500 Brooklyn, N. Y., <i>EST.</i>	<b>WSAZ</b> 1190 Huntington, W. Va., <i>EST.</i>
<b>WICC</b> 600 Bridgeport, Conn., <i>EST.</i>	<b>WMC</b> 780 Tampa, Fla., <i>EST.</i>	<b>WSB</b> 740 Atlanta, Ga., <i>CST.</i>
<b>WIL</b> 1200 St. Louis, Mo., <i>CST.</i>	<b>WMC</b> 780 Memphis, Tenn., <i>CST.</i>	<b>WSBC</b> 1210 Chicago, Ill., <i>CST.</i>
<b>WILL</b> 899 Urbana, Ill., <i>CST.</i>	<b>WMCB</b> 570 New York City, <i>EST.</i>	<b>WSBT</b> 1230 South Bend, Ind., <i>CST.</i>
<b>WILM</b> 1420 Wilmington, Del., <i>EST.</i>	<b>WMIL</b> 1500 Brooklyn, N. Y., <i>EST.</i>	<b>WSEN</b> 1210 Columbus, Ohio, <i>EST.</i>
<b>WINS</b> 1180 New York City, <i>EST.</i>	<b>WMMN</b> 890 Fairmont, W. Va., <i>EST.</i>	<b>WSFA</b> 1410 Montgomery, Ala., <i>CST.</i>
<b>WIDD</b> 1300 Miami, Fla., <i>EST.</i>	<b>WMPF</b> 1500 Lapeer, Mich., <i>EST.</i>	<b>WSIX</b> 1210 Springfield, Tenn., <i>CST.</i>
<b>WIP</b> 510 Philadelphia, Pa., <i>EST.</i>	<b>WMSG</b> 1350 New York City, <i>EST.</i>	<b>WSJS</b> 1310 Winston-Salem, N. C., <i>EST.</i>
<b>WIS</b> 1010 Columbia, S. C., <i>EST.</i>	<b>WMT</b> 600 Waterloo, Iowa, <i>CST.</i>	
<b>WISN</b> 1120 Milwaukee, Wis., <i>CST.</i>	<b>WNAI</b> 1230 Boston, Mass., <i>EST.</i>	<b>WSM</b> 650 Nashville, Tenn., <i>CST.</i>
<b>WJAC</b> 1310 Johnstown, Pa., <i>EST.</i>	<b>WNAD</b> 1010 Norman, Okla., <i>EST.</i>	<b>WSMB</b> 1320 New Orleans, La., <i>CST.</i>
<b>WJAG</b> 1060 Norfolk, Neb., <i>CST.</i>	<b>WNAX</b> 570 Yankton, S. D., <i>CST.</i>	<b>WSMK</b> 1380 Dayton, Ohio, <i>EST.</i>
<b>WJAR</b> 980 Providence, R. I., <i>EST.</i>	<b>WNBF</b> 1500 Binghamton, N. Y., <i>EST.</i>	<b>WSOC</b> 1210 Gastonia, N. C., <i>EST.</i>
<b>WJAS</b> 1290 Pittsburgh, Pa., <i>EST.</i>	<b>WNBO</b> 1310 New Bedford, Mass.	<b>WSPA</b> 1420 Spartanburg, S. C., <i>EST.</i>
<b>WJAX</b> 900 Jacksonville, Fla., <i>EST.</i>	<b>WNBO</b> 200 Washington, Pa., <i>EST.</i>	<b>WSPD</b> 1340 Toledo, Ohio, <i>EST.</i>
<b>WJAY</b> 610 Cleveland, Ohio, <i>EST.</i>	<b>WNBK</b> 1430 Memphis, Tenn., <i>CST.</i>	<b>WSUI</b> 860 Iowa City, Iowa, <i>CST.</i>
<b>WJBC</b> 1200 LaSalle, Ill., <i>CST.</i>	<b>WNBW</b> 1200 Carbondale, Pa., <i>EST.</i>	<b>WSUN</b> 570 St. Petersburg, Fla., <i>EST.</i>
<b>WJBI</b> 1210 Ref Bank, N. J., <i>EST.</i>	<b>WNBX</b> 1260 Springfield, Vt., <i>EST.</i>	<b>WSVS</b> 1320 Buffalo, N. Y., <i>EST.</i>

<b>WYSB</b> 1500 Rutland, Vt., <i>EST.</i>	<b>XEAI</b> 1090 Mexico City, Mex.	<b>XER</b> 735 Villa Acuna, Mex.
<b>WYSR</b> 570 Syracuse, N. Y., <i>EST.</i>	<b>XEAN</b> 750 Juarez, Mex., <i>MST.</i>	<b>XES</b> 1055 Tampico, Mex., <i>CST.</i>
<b>WTAD</b> 1440 Quincy, Ill., <i>CST.</i>	<b>XEAO</b> 560 Mexicali, Mex.	<b>XET</b> 690 Monterrey, Mex., <i>CST.</i>
<b>WTAG</b> 580 Worcester, Mass., <i>EST.</i>	<b>XEAW</b> 965 Reynosa, Mex.	<b>XETA</b> 1140 Mexico City, Mex.
<b>WTAM</b> 1070 Cleveland, Ohio, <i>EST.</i>	<b>XEB</b> 1030 Mexico City, Mex., <i>CST.</i>	<b>XETB</b> 1380 Torreon, Mex.
<b>WTAQ</b> 1330 Eau Claire, Wis., <i>CST.</i>	<b>XEC</b> 1000 Toluca, Mex.	<b>XETF</b> 630 Veracruz, Mex., <i>CST.</i>
<b>WTAR</b> 780 Norfolk, Va., <i>EST.</i>	<b>XED</b> 1155 Guadalajara, Mex.	<b>XETH</b> 840 Puebla, Mex.
<b>WTAW</b> 1120 College Station, Texas.	<b>XEF</b> 735 Villa Acuna, Mex.	<b>XETM</b> 845 Matamoros, Mex.
<b>WTAX</b> 1210 Springfield, Ill., <i>CST.</i>	<b>XEFA</b> 1250 Mexico City, Mex.	<b>XETR</b> 610 Mexico City, Mex.
<b>WTBO</b> 1420 Cumberland, Md., <i>EST.</i>	<b>XEFB</b> 1315 Monterrey, Mex., <i>CST.</i>	<b>XETU</b> 890 Pachuca, Mex.
<b>WTBL</b> 1310 Philadelphia, Pa., <i>EST.</i>	<b>XEFC</b> 1020 Merida, Mex.	<b>XETW</b> 830 Mexico City, Mex.
<b>WTFI</b> 1450 Athens, Ga., <i>EST.</i>	<b>XEFD</b> 855 Tia Juana, Mex.	<b>XEU</b> 1010 Veracruz, Mex., <i>CST.</i>
<b>WTIC</b> 1060 Hartford, Conn., <i>EST.</i>	<b>XEFE</b> 1000 Laredo, Mex.	<b>XEW</b> 910 Mexico City, Mex., <i>CST.</i>
<b>WTJS</b> 1310 Jackson, Tenn., <i>CST.</i>	<b>XEFI</b> 1000 Chihuahua, Mex.	<b>XEX</b> 1210 Mexico City, Mex.
<b>WTMJ</b> 820 Milwaukee, Wis., <i>CST.</i>	<b>XEFJ</b> 1000 Monterrey, Mex.	<b>XEY</b> 546.8 Mexida, Mex.
<b>WTNJ</b> 1280 Trenton, N. J., <i>EST.</i>	<b>XEFO</b> 940 Mexico City, Mex., <i>CST.</i>	<b>XFB</b> 1290 Jalapa, Mex.
<b>WTOC</b> 1260 Savannah, Ga., <i>EST.</i>	<b>XEFS</b> 1000 Queretaro, Mex., <i>CST.</i>	<b>XFC</b> 805 Aguascalientes, Mex.
<b>WTRC</b> 1310 Elkhart, Ind., <i>CST.</i>	<b>XEFV</b> 1370 Juarez, Mex.	<b>XFG</b> 638.3 Mexico City, Mex.
<b>WWAE</b> 1200 Hammond, Ind., <i>CST.</i>	<b>XEFW</b> 1240 Tampico, Mex.	<b>XFI</b> 818.1 Mexico City, Mex.
<b>WWJ</b> 920 Detroit, Mich., <i>EST.</i>	<b>XEFG</b> 1500 Coyoacan, Mex., <i>CST.</i>	<b>XFO</b> 940 Mexico City, Mex.
<b>WWL</b> 850 New Orleans, La., <i>CST.</i>	<b>XEG</b> 1075 Mexico City, Mex.	<b>XFX</b> 860 Mexico City, Mex.
<b>WWNC</b> 570 Asheville, N. C., <i>CST.</i>	<b>XEH</b> 1132 Monterrey, Mex., <i>CST.</i>	<b>YVIBC</b> 960 Caracas, Venez.
<b>WWRL</b> 1500 Woodside, N. Y., <i>EST.</i>	<b>XEI</b> 1310 Morelia, Mex., <i>CST.</i>	<b>10-AB</b> 1200 Moose Jaw, Sask., <i>MST.</i>
<b>WWSW</b> 1500 Pittsburgh, Va., <i>EST.</i>	<b>XEJ</b> 1015 Juarez, Mex., <i>CST.</i>	<b>10-AK</b> 1200 Stratford, Ont., <i>EST.</i>
<b>WWVA</b> 1160 Wheeling, W. Va., <i>EST.</i>	<b>XEK</b> 990 Mexico City, Mex.	<b>10-AT</b> 1158 Trail, B. C., <i>PST.</i>
<b>WXYZ</b> 1240 Detroit, Mich., <i>EST.</i>	<b>XEL</b> 1000 Saltillo, Mex., <i>CST.</i>	<b>10-BI</b> 1200 Prince Albert, Sask., <i>MST.</i>
<b>XEA</b> 1000 Guadalajara, Mex., <i>CST.</i>	<b>XEM</b> 660 Matamoros, Mex.	<b>10-BP</b> 1199 Wingham, Ont., <i>EST.</i>
<b>XEAB</b> 1450 N. Laredo, Mex.	<b>XEN</b> 711 Mexico City, <i>CST.</i>	<b>10-BQ</b> 1200 Brantford, Ont., <i>EST.</i>
<b>XEAC</b> 1295 San Luis Potosi, Mex.	<b>XENT</b> 1115 Neuvo Laredo, Mex.	<b>10-BU</b> 1200 Canora, Sask.
<b>XEAD</b> 875 Mexico City, Mex.	<b>XEP</b> 780 Mexico City, Mex.	
	<b>XEPN</b> 585 Piedras Negras, Mex.	

# One Hundred Best Short Wave Stations

## By Frequencies and Wave Lengths

Submitted by our readers as being most regularly received. Times are given in Eastern Standard. First column gives frequency in megacycles (for kilocycles read the decimal point as a comma) and the second column, wave-lengths in meters.

For complete lists of short-wave stations see the following issues of this magazine:

September: Foreign stations arranged by countries.

November: American stations by states.

December: Canadian stations by provinces and Complete list by call letters.

April: Complete list by frequencies and waves.

Stations marked with an asterisk (\*) will not verify.

4.174	Broadcast B.	Phone P.	6.116	49.02	W2XE, Wayne, N. J., 6-11 p.m.	B
4.174	71.82	British Ships	6.119	49.00	YVIBC, Caracas, Venez. Relays 960 kcs.	B
4.283	71.82	German Ships			10:30 a.m.-1 p.m.; 5:15-10 p.m.	B
4.513	70.00	Italian Ships	6.125	48.95	YV1BMO, Maracaibo, Venez., 8-11 p.m.	B
4.513	66.43	VPN, Nassau, Bahamas, Phones Hialeah				B
4.753	63.08	*WOO, Ocean Gate, N. J. Phones Ships	6.140	48.83	W8XK, Pittsburgh, Pa. Relays KDKA	B
5.045	59.42	*VRT-ZFA Hamilton, Bermuda. Phones			4-11 p.m.	B
		WNB-GMEJ nights	6.246	48.00	*HJ3ABF, Bogota, Colombia, 8-11 p.m.	B
5.766	52.00	XAM Merida, Yucatan. Tests XDA 10 a.m.-8 p.m. irreg.	6.272	47.80	H11A, Santiago de los Caballeros, S. Domingo, 1:40-4:40 p.m., Sunday	B
5.879	51.00	*XDA Mexico City. Tests XAM 10 a.m.-8 p.m. irreg.	6.378	47.00	HJ5ABB, Cali, Colombia	B
			6.618	45.31	PRADO, Riobamba, Ecuador, Thur. 9-11 p.m.	B
5.925	50.60	HJ4ABE, Medellin, Colombia. Mon., Wed., Fri., 7:30 to 10:30 p.m.; Tues., Thur., Sat., Sun., 6-8 p.m.	6.648	45.10	IAC, Coltano, Italy. Testing irreg.	B
			6.675	44.91	DGK, Nauen, Germany. Heard 9 p.m. with WEJ	P
5.996	50.00	RV59, Moscow, USSR. 3-6 p.m.	6.752	44.41	*WOA, Lawrenceville, N. J. Phones Eng-land	P
		HJ1ABB, Barranquilla, Colombia. 8-10 p.m.				P
6.005	49.93	VE9DR, Montreal, Quebec. Daily, 7:30 a.m.-mid. Sunday, noon-11 p.m.	6.888	43.54	*KEQ, Kahuku, Hawaii. Phones California nights	P
6.017	49.83	DJC, Zeesen, Germany	7.139	42.00	HJ4ABB, Nanizales, Colombia, Sat. 10 p.m.-mid.	B
6.040	49.64	WIXAL, Boston, Mass. Irregular	7.396	40.54	*WEM, Rocky Point, N. Y.	P
6.050	49.56	GSA, Davenport, England. To Canada 6-8 p.m.	7.465	40.16	*HJP, Bogota, Colombia. Phones Hialeah	P
6.057	49.50	W3XAU, Philadelphia, Pa., irreg.	7.518	39.89	*KDK-KKH, Kahuku, Hawaii, 9 p.m. and 2 a.m.	P
6.070	49.39	VE9CS, Vancouver, B. C., Fri. 12:30-1:45 a.m.; noon to mid.	7.685	39.01	TTR, Cartago, Costa Rica. Phones Hialeah	P
6.090	49.23	VE9BJ, St. John, N. E., 5 p.m. and 11 p.m.	7.790	38.49	HBP, Geneva, Switzerland, Sun. 5-5:45 p.m.	B
6.092	49.22	VE9GW, Bowmanville, Ont., irreg.	8.103	37.00	HCJB, Quito, Ecuador, 7:30-9:45 p.m. Except Monday.	B
6.095	49.18	W9XF, Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.-2 a.m.	8.328	36.00	German Ships	P
6.096	49.17	W3XAL, Boundbrook, N. J., Sat. 4:30 p.m.-1 a.m.				

100 BEST S. W. STATIONS

8.464	35.42	DAF, Norden, Germany. Phones Ships	P	12.839	23.36	WOO, Ocean Gate, N. J. Phones Ships	P
8.562	35.02	*WOO, Ocean Gate, N. J. Phones Ships	P	13.035	23.00	German Ships	P
8.566	35.00	Italian Ships	P	13.219	22.68	British Ships	P
8.831	33.95	British Ships	P	13.296	22.55	CGA, Drummondville, Que. 9 a.m.-2 p.m.	P
9.012	33.27	KEJ, Bolinas, Calif. Tests Irregularly	P	13.337	22.48	*YVQ, Maracay, Venezuela. Phones Hialeah, days	P
9.273	32.33	GCB, Rugby, England. Phones Canada nights	P	13.500	22.09	GBB, Rugby, England. Talks Canada daytimes	P
9.290	32.27	Rabat, Morocco. Sun., 2:30-5 p.m.	B	13.816	21.70	SUZ, Cairo, Egypt. 7 a.m. and 3:30 p.m.	P
9.340	32.10	CGA, Drummondville, Quebec. Phones England, nights	P	14.450	20.75	GBW, Rugby, England. 6 a.m. and 6 p.m.	P
9.410	31.86	PLV, Bandoeng, Java. Irregular	P	14.480	20.70	YMA, Managua, Nicaragua. Phones Hialeah, days	P
9.480	31.63	PLW, Bandoeng, Java. Phones Australia 3-8 a.m. irreg.	P	14.550	20.60	TIR, Cartago, Costa Rica. Phones Hialeah, days	P
9.503	31.55	VK3ME, Melbourne, Australia. Wed., 5-6:30 a.m.; Sat., 5-7 a.m.	B	14.682	20.42	RXF, Panama City, Panama. Phones Hialeah, days	P
9.510	31.53	GSB, Daventry, England. To S. Africa 1-5:30 p.m. To Canada 6-8 p.m.	B	14.930	20.08	HBJ, Geneva, Switzerland	P
9.520	31.49	OXY, Skumleback, Denmark. 2-6:30 p.m.	B	14.991	20.00	PSS, Rio de Janeiro, Brazil. 5-6 p.m.	P
9.530	31.46	W2XAF, Schenectady, N. Y., 7 to 11 p.m.	B	15.055	19.91	*HJB, Bogota, Colombia. Phones Hialeah days	P
9.552	31.38	DJA, Zeeoen, Germany. 2 p.m.-6:30 p.m.	B	15.120	19.83	TGA, Guatemala City, Guatemala. Phones Hialeah, days	P
9.560	31.36	W1XAZ, Springfield, Mass., 7 a.m.-1 a.m.	B	15.140	19.81	*WNC, Hialeah, Florida. Phones Pan-American stations, days	P
9.580	31.30	HBL, Geneva, Switzerland, Sun., 5-5:45 p.m.	B	15.190	19.73	HVJ, Vatican City. 10-10:30 a.m.	B
9.585	31.28	GSC, Daventry, England. 4:30-6:30 a.m.; 8:30 a.m.-12:30 p.m.; 1-5:30 p.m.; 6-8 p.m.	B	15.204	19.72	GSF, Daventry, England	B
9.585	31.28	W3XAU, Philadelphia, Pa., irregular	B	15.204	19.72	DJB, Zeeoen, Germany. 8 a.m.-noon	B
9.585	31.28	VK2ME, Sydney, Australia. Sun., 1-3 a.m.; 5-9 a.m.; 10:30 a.m.-12:30 p.m.	B	15.234	19.68	W8XX Pittsburgh, Pa. Relays KDKA 9 a.m.-4 p.m.	B
9.592	31.25	CT1AA, Lisbon, Portugal. Tues.-Fri., 5-7 p.m.	B	15.258	19.65	Pontoise, France. 8 a.m.-11 a.m.	B
9.67	31.00	T14NRH, Heredia, Costa Rica. Daily, 5:30-6:30 p.m.	B	15.282	19.65	W2XE, Wayne, N. J. 11 a.m.-1 p.m.	B
9.702	30.90	LQA, Buenos Aires, Argentina.	P	15.320	19.57	W2XAD, Schenectady, N. Y. Daily 1-3 p.m.; Sat.-Sun., to 4	B
9.802	30.40	EAQ, Madrid, Spain. 5:30-7 p.m.	B	15.410	19.46	KWO, Dixon, Calif. Phones Hawaii 2-7 p.m.	P
9.855	30.30	LSN, Buenos Aires, Argentina, 6 p.m. and 6 a.m.	P	15.863	18.90	FTK, Ste. Assise, France. Phones Saigon, mornings	P
10.060	29.80	*VRT-ZFB, Hamilton, Bermuda. Phones WNB days	P	16.024	18.71	*KKP-KKU, Kahuku, Hawaii. Phones Dixon, days.	P
10.163	29.50	German Ships	P	17.512	17.12	DFB, Nauen, Germany. Phones Venezuela, mornings	P
10.212	29.35	PSH, Rio de Janeiro, Brazil. Tests W2XBJ evenings	P	17.770	16.90	GSG, Daventry, England. To India 9:30-11:30 a.m.	B
10.246	29.26	DIQ, Nauen, Germany	P	17.761	16.88	PHI, Huizen, Holland. 5:40-11:40 a.m.	B
10.520	28.50	VK2ME, Sydney, Australia. Irreg.	P	17.772	16.87	DJE, Koenigswusterhausen, Germany	B
11.174	26.83	CT3AQ, Funchal, Madeira. Tues.-Thurs., 5-6:30 p.m.; Sun., 10:30-noon	B	17.830	16.82	W3XAL, Boundbrook, N. J. 8 a.m.-4 p.m.	B
11.530	26.00	XAM, Merida, Yucatan	P	17.830	16.82	PCV, Kootwijk, Holland. 6-9 a.m.	P
11.710	25.60	VE9R, Winnipeg, Manitoba. Tues., 6:30-8:30 p.m.; Fri., to 9	B	18.116	16.55	LSY, Buenos Aires, Argentina	P
11.710	25.60	VE9R, Winnipeg, Manitoba. Tues., 6:30-8:30 p.m.; Fri., to 9	B	18.296	16.39	*YVQ, Maracay, Venezuela. Heard about 10 a.m.	P
11.710	25.60	Pontoise, France. 4-7 p.m.	B	18.444	16.25	*HJY, Bogota, Colombia. 11 a.m. and 4 p.m.	P
11.725	25.57	PHOHI, Eindhoven, Holland	B	18.611	16.11	GAU, Rugby, England. Phones N. Y. days	P
11.750	25.51	GSD, Daventry, England. To Oceania 4:30-6:30 a.m.; 1-5:30 p.m.	B	18.670	16.06	*OCI, Lima, Peru. 2 p.m.	P
11.753	25.51	DJD, Koenigswusterhausen, Germany. 6 p.m.	B	18.820	15.93	PLE, Bandoeng, Java. Tues.-Fri., 5:40-10:40 a.m.	P
11.760	25.50	*XDA, Mexico City. Tests XAM 1 p.m. and 6 p.m.	P	18.958	15.82	LSR, Buenos Aires, Arg. 11 a.m. and 4 p.m.	P
11.800	25.40	I2RO, Rome, Italy. 11 a.m.-12:30 p.m.; 1-6 p.m.	B	19.282	15.55	FTM, St. Assise, France. 10 a.m.-2 p.m.	P
11.823	25.36	W2XE, Wayne, N. J. 3-5 p.m.	B	19.678	15.24	*CEC, Santiago, Chile. 11 a.m. and 4 p.m.	P
11.865	25.27	GSE, Daventry, England. To India 8:30 a.m.-12:30 p.m.	B	19.684	15.23	EAQ, Madrid, Spain. Phones	P
11.872	25.25	W8XK, Pittsburgh, Pa. Relays KDKA 4-10 p.m.	B	19.895	15.07	LSG, Buenos Aires, Argentina. 10:30 a.m.-3:30 p.m.	P
11.898	25.20	Pontoise, France. 11:30 a.m.-2:30 p.m.	B	21.020	14.27	LSN, Buenos Aires, Argentina. 8 a.m. and 4 p.m.	P
12.000	24.98	FZS, Saigon, Indo-China. 9-10 a.m.	P	21.054	14.24	*WKA, Lawrenceville, N. J. 8 a.m.-4 p.m.	P
12.148	24.68	GBS, Rugby, England. Phones N. Y. afternoon	P	21.069	14.23	PSA, Rio de Janeiro, Brazil. 8 a.m.	P
12.241	24.41	GBU, Rugby, England. Phones N. Y. nights	P	21.400	14.01	*WKK Lawrenceville, N. J. 8 a.m.-4 p.m.	P
12.394	24.19	DAF, Norden, Germany. Phones Ships	P	21.470	13.96	GSH, Daventry, England	B
12.820	23.38	CNR, Rabat, Morocco. Sun., 7:30 a.m.-9 a.m.	B	21.451	13.93	W8XK, Pittsburgh, Pa. 9 a.m.-2 p.m.	B

A Complete List of S. W. Stations of the World was in the April issue.



# The Hundred Best S. W. Stations by Calls . . .

British Ships 13.219 22.68 8.831 33.95 4.174 71.82	P	GSC Daventry, England 9.585 31.28	B	LSN Buenos Aires, Arg. 9.895 30.30	P
*CEC Santiago, Chile 19.678 15.24	P	GSD Daventry, England 11.750 25.51	B	LSR Buenos Aires, Arg. 18.958 15.82	P
CGA Drummondville, Que. 13.296 22.55	P	GSE Daventry, England 11.865 25.27	B	LSY Buenos Aires, Arg. 18.116 16.55	P
CNR Rabat, Morocco 12.820 23.38	P	GSG Daventry, England 15.140 19.81	B	*OCI Lima, Peru 18.670 16.06	P
CT1AA Lisbon, Portugal 9.592 31.25	B	GSF Daventry, England 17.770 16.90	B	OXY Skamleback, Denmark 9.520 31.49	B
CT3AQ Funchal, Madeira 11.174 26.83	B	GSH Daventry, England 21.470 13.96	B	PCV Kootwijk, Holland 17.830 16.82	B
DAF Norden, Germany 17.260 17.37	P	HBJ Geneva, Switzerland 14.550 20.60	P	PHI Huizen, Holland 17.761 16.88	B
12.394 24.19		HBL Geneva, Switzerland 9.580 31.30	B	PHOH Huizen, Holland 11.725 25.57	B
8.464 35.42		HBP Geneva, Switzerland 7.790 38.49	B	PLE Bandoeng, Java 18.820 15.93	P
DFB Nauen, Germany 17.512 17.12	P	HCB Quito, Ecuador 8.103 37.0	B	PLV Bandoeng, Java 9.410 31.86	P
12.394 24.19		HIIA Santiago de los Caballeros, Santo Domingo 6.272 47.80	B	PLW Bandoeng, Java 9.490 31.63	P
8.464 35.42		*HJB Bogota, Colombia 14.930 20.08	B	Pontoise, France 15.234 19.68	B
DFB Nauen, Germany 17.512 17.12	P	*HJP Bogota, Colombia 7.465 40.16	P	8-11 a.m. 11.898 25.20	B
12.394 24.19		*HJL Barranquilla, Colombia 5.996 50.0	B	11:30 a.m.-2:30 p.m. 11.710 25.60	B
8.464 35.42		*HJM Medellin, Colombia 5.925 50.60	B	4-7 p.m. PRADO Riobamba, Ecuador 6.618 45.31	B
DAF Norden, Germany 17.260 17.37	P	HJN Madrid, Spain 9.862 30.40	B	9-11 p.m. PSA Rio de Janeiro, Brazil 21.069 14.23	P
12.394 24.19		FTK Ste. Assise, France 15.863 18.90	P	8 a.m. PSH Rio de Janeiro, Brazil 10.212 29.35	B
8.464 35.42		FTM St. Assise, France 19.282 15.55	P	PSS Rio de Janeiro, Brazil 14.692 20.42	B
DAF Norden, Germany 17.260 17.37	P	FZS Saigon, Indo-China 12.000 24.98	P	5-6 p.m. Rabat, Morocco 9.290 32.27	B
12.394 24.19		German Ships 13.035 23.00		3-5 p.m. RAU Tashkent, USSR 15.104 19.85	B
8.464 35.42		10.183 29.50		RV59 Moscow, USSR 5.996 50.0	B
DAF Norden, Germany 17.260 17.37	P	8.328 36.00		*RXC Panama City, Panama 14.485 20.69	P
12.394 24.19		4.174 71.82		SUZ Cairo, Egypt 13.816 21.70	P
GAU Rugby, England 18.611 16.11	P	GAU Rugby, England 13.500 22.09	P	7 a.m.-3:30 p.m. TGA Guatemala City, Guatemala 14.991 20.00	P
18.611 16.11		GBB Rugby, England 13.500 22.09	P	TIR Cartago, Costa Rica 14.484 20.7	P
12.394 24.19		GBS Rugby, England 12.148 24.68	P	7.685 39.01	
8.464 35.42		GBU Rugby, England 12.241 24.41	P	TIANRH Heredia, Costa Rica 9.670 31.00	B
DAF Norden, Germany 17.260 17.37	P	GBW Rugby, England 14.450 20.75	P	5:30-6:30 p.m. VE9BJ St. John, N. B. 6.090 49.23	B
12.394 24.19		GCB Rugby, England 9.273 32.33	P	5 p.m.-11 p.m. VE9CS Vancouver, B. C. 6.070 49.39	B
8.464 35.42		GSA Daventry, England 6.050 49.50	B	Daily, 8-10 p.m. VE9DR Montreal, Que. 6.005 49.93	B
12.394 24.19		GSB Daventry, England 9.510 31.53	B	7:30 a.m.-mid.; Sun. noon to 11:15 p.m. VE9GW Bowmanville, Ont. 6.092 49.22	B
DAF Norden, Germany 17.260 17.37	P	*KDK-KKH Kahuku, Hawaii 7.518 39.89	P	Irregular VE9JR Winnipeg, Man. 11.710 25.00	B
12.394 24.19		*KEJ Bolinas, Calif. 9.012 33.27	P	Tues. 6:30-8:30 p.m. Fri. to 9. VK2ME Sydney, Australia 19.520 28.50	B
8.464 35.42		*KKP Kahuku, Hawaii 16.024 18.71	P	5.985 31.28	B
DAF Norden, Germany 17.260 17.37	P	*KWO Dixon, Calif. 15.410 19.46	B	1-3 a.m.; 5-9 a.m.; 10:30-12:30 VK3ME Melbourne, Australia 9.503 31.55	B
12.394 24.19		LQA Buenos Aires, Argentina 9.702 30.90	P	Wed. 5-6:30 a.m.; Sat. 5-7 a.m. VPN Nassau, Bahamas 4.508 66.50	P
8.464 35.42		LSG Buenos Aires, Arg. 19.895 15.07	P	10:30 a.m.-3:30 p.m. Phones WNC	

*VRT-ZFA	Hamilton, Bermuda	P	W2XAD	Schenectady, N. Y.	B	W9XF	Chicago, Ill.	B
5.045	59.42		15.320	19.57	Daily 1-3 p.m.; Sat., Sun. to 4.	6.095	49.18	4:30-8 p.m.; 9:30-2 a.m.
*VRT-ZFB	Hamilton, Bermuda	P	W2XAF	Schenectady, N. Y.	B	XAM	Merida, Yucatan	P
10.060	29.80		9.530	31.46	Daily, 7-11 p.m.	5.786	52.00	
*WEM	Rocky Point, N. Y.	P	W2XE	Wayne, N. J.	B		11.530	26.00
7.396	40.54		15.258	19.65	11 a.m.-1 p.m.	*XDA	Mexico City	P
*WKA	Lawrenceville, N. J.	P	11.823	25.36	3-5 p.m.	5.879	51.00	
21.054	14.24	8 a.m.-4 p.m.	6.116	49.02	6-11 p.m.	11.760	25.50	
*WKK	Lawrenceville, N. J.	P	W3XAL	Boundbrook, N. J.	B	YMA	Managua, Nicaragua	P
21.400	14.01	8 a.m.-4 p.m.	6.096	49.17	Sat. 4:30 p.m.-1 a.m.	14.480	20.70	
*WNC	Hialeah, Florida	P	17.772	16.87	8 a.m.-4 p.m.	*YVQ	Maracay, Venezuela	P
15.051	19.92	Phones Pan-American stations	W3XAU	Philadelphia, Pa.	B	13.337	22.48	
*WOO	Ocean Gate, N. J.	P	9.585	31.28	Irregular	*YVR	Maracay, Venezuela	P
12.839	23.36	Phones Ships	6.057	49.50		18.296	16.39	
8.561	35.02		W8XK	Pittsburgh, Pa.	B	5.119	49.00	Relays 960 kcs.; 10:30 a.m.-1 p.m.;
4.749	63.13		6.140	48.83	Relays KDKA 4-11 p.m.	YV1BC	Caracas, Venez.	B
WLXAL	Boston, Mass.	B	11.872	25.25		5:15-10 p.m.		
6.040	49.64	Irregular	15.204	19.72	Relays KDKA 9 a. m.-4 p.m.	YV11BMO	Maracaibo, Venez.	B
W1XAZ	Springfield, Mass.	B	21.451	13.93	9 a.m.-2 p.m.	6.125	48.95	8-11 p.m.
9.560	31.36	7:00 a.m.-1:00 a.m.						

## Tuning in Britain

(Continued from page 34)

very good indeed, considering its small power. On one occasion recently, the writer received six U. S. stations equally as strong as some of the Continental high-power stations.

Usually, the stations working on waves above 1000 kcs. come over the best.

\*12 Old Bridge Terrace, Deansgate, Grimsby, Lincolnshire, England.

## Index to Past Issues

It being quite impossible to include all station data, both broadcast and short wave, in any one issue of this magazine, the various lists must necessarily appear irregularly. Beginning with this issue, we are publishing on the last page a Quick Index to Station Data showing the last edition in which the various data appeared.

"This is just to note how fine every copy is. Why I haven't owned every copy since its first number, I can't tell. It is high-class in every way—a great comfort to home listeners especially. Its department of trouble queries is very instructive. The DX features are very intriguing—they broaden our horizons so much. The list of classified programs is invaluable. \* \* \* In fact, it is an indispensable visitor to my library-table every month. More power to you."

Mrs. E. B. H. Wyckoff, Lansing, Mich.

## Building the Logs

(Continued from page 33)

quite well and sometimes as early as midnight."

"My log has increased by about a hundred stations since I wrote last," reports Marian Canniff, 2112 S. Cedar St., Lansing, Mich. "I have quite a few pretty good catches in Cuba and Mexico, but my best catches are YV1BC, WKAQ and HJN. I'm a long way from the stage where it's hard to get new stations. There are always plenty of 100-watters on that I haven't logged yet. Wish I'd have some luck and get an Australian station—or something!"

"I became interested in your magazine when I noticed that you gave the time of the stations on the air," comments \*Wm. Wheatley, 87-48-124th St., Richmond Hill, N. Y. "This was in October and here is my log since then: Every channel from 540 keys. to 1500; 305 stations, 40 states, and 165 cities; 8 stations in Mexico; 10 in Canada, 15 in Cuba, and 2 in Nova Scotia."

"Yesterday, January 15th, marked the first anniversary of my present set, a Kennedy," remarks \*Roy V. Heatter, 7805 So. Peoria St., Chicago, Ill. "A summary of my log shows 432 stations heard for the first

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year, with 163 verified. They were divided as follows: U. S. 390; Canada 23; Cuba 11; Mexico 8; 45 states heard, those missing being Rhode Island, Maine and Delaware."

"I have a 6-tube Mohawk d.c. set," advises George L. Richardson, Phillips Exeter Academy, Exeter, N. H. "I use two antennas at right angles to each other. I have now a total of 197 stations, rather poor compared to some of your readers' records, but not bad for a year of DXing. I can get XER in the daytime, at noon, and at night KFI and WQAM roar in like locals."

"Have been a DXer since January, 1932, and have logged 317 stations in the U. S., Canada, Mexico, Cuba, Porto Rico, and YV1BC, Caracas, Venezuela, and HJN, Bogota, Colombia, which are my best catches," writes \*Lowell F. Barrows, 275 N. Union St., Delaware, Ohio. "I have verifications from 239. This winter has been a wonderful DX season. I am using a 10-tube Majestic superhet, Model 215, with dual speakers. This model has given me wonderful satisfaction."

"I am located in rather a bad place (on the heel of Cape Cod) with Cape Cod Bay 14 miles north and the Vineyard Sound and Atlantic Ocean south," remarks Walter L. Gates, Box 143, Teaticket, Mass. "Of course we have the Atlantic east of us. Porto Rico, Cuba, Santo Domingo come in good. Charlotte, N. C., Chattanooga, Abilene, Omaha, Minneapolis, Win-

nipeg, Toronto, Montreal, Moncton, N. B., are my limits."

"I began DXing four months ago for the first time since I bought my radio in June," writes Ramon M. Marti, Central St. No. 26, Santurce, Porto Rico, "and I have already 175 stations, among which I have 3 Europeans, 3 Argentinas, one Colombia, 2 Venezuela, one Dominican, 10 Mexican, 9 Cuban, 10 Canadian, and the rest Americans. Considering that Porto Rico is nearly 1000 miles or over of nearly all radio stations, I think that 175 stations in four months is something."

"Since last summer I have doubled my total of stations picked up, from less than 100 to 195," remarks Gustave Solomon, 404 Bon Accord Block, Winnipeg, Man. "I have only five more channels to get and another 12 states. The fall and winter are the best time for DXing for reception is then best. However, DXing can be carried on all year. It was during the summer that I first logged CMAF and also heard KOB several times."

With his Atwater Kent 89, Luther E. Grim, 505 South Main Street, Red Lion, Pa., has brought in every state in the U. S., every province of Canada, Newfoundland, Hawaii, Cuba, Mexico, Venezuela, Colombia, Porto Rico, France and New Zealand. On the morning of January 15th, he heard KFYO, 100 watts, Lubbock, Texas, and KFPM, 15 watts, Greenville, Texas, on the same channel at the same time and the 15-

watter was steadier than the hundred.

"With the help of RADEX, in six nights of DX I increased my log by 24 stations," advises \*W. C. Littlewood, 1960 East 72nd Place, Chicago, Ill. "Each of these was a Saturday or early Sunday morning, as this is the only time I have to DX, except in the early evening. I have a home-made two-tube receiver and in about 2½ months I have logged 162 stations on the broadcast band, including 35 states, Mexico, Cuba and Canada."

"With the aid of your DX Calendar," advises Howard Evans, 180 So. Main St., East Hartford, Conn., "I have logged and verified 10-AB, Moose Jaw, 25 watts, 1650 miles, rating 66, on February 19th. KFPM, logged and verified, is still my rarest catch, rating 91.66. I also tuned in HJN Bogota, on February 26th, and am awaiting their verification. I have a 7-tube Brunswick, bought in December, 1931."

"Up to date I have received 376 stations, including 2YA, KGU, WKAQ, VAS, and all the states but New Hampshire and Vermont," reports John E. Waggoner, 1706 Hudson Court, Lawrenceville, Ill. "I have at least one station on all of the ninety-six channels. I own an Atwater Kent 60 and it has never failed to give satisfaction."

"My mileage for stations logged is over 2¼ million miles," reports R. A. Butts, 203 S. Main St., Ellensburg, Wash. "I am enclosing entire list of my log. I logged my great list of stations this winter, 291 all told. I logged 239 in 1927 during the trans-Atlantic tests which showed 490,000 miles against 425,000 this winter."

"Ever since I bought my first copy of RADEX my log has increased by leaps and bounds," says Rudolph Maxwell, Jr., 4815 Ward St., Cincinnati, Ohio. "In December, 1932, I had recorded 59 stations and then I bought my first copy of RADEX. Well, that must have been the magic word, because I have pulled in 170 stations to date (January 30th)."

"I have 365 stations logged with

290 verified," reports Harry McPoyle, 1411 N. Edgewood St., West Philadelphia, Pa. "I never had a European station, but have logged them in Cuba, Canada, Mexico and Porto Rico. I am an ardent DX fan. Have been since the old one-tube WD11 days, when WDAP in Chicago was my first DX station."

"I am an old DX fan," comments Norman Wilkin, Columbus, Wis. "Since August, 1928, I have received 507 broadcasters. This includes all 48 states, 25 in Canada, 11 in Mexico, 7 in Cuba, Porto Rico and Bogota, Colombia. I have access to three 100-foot aeriels, each running in a separate direction. I use a cistern for a ground."

"I have only been DXing since last August, by this I mean logging them," remarks \*Ernest Davidson, 46 Hogarth Ave., Toronto 6, Ont. "I have 191 stations, 96 channels and 39 states. I use a Northern Electric 'Minaki' 5-tube midget. For an aerial I have two four-inch copper balls, 30 feet high, joined to a common lead-in. The ground is the cold water pipe."

"I think I've made quite a record with a Graybar table model 7-tube superhet," says \*Paul Heeley, 1220 W. Jackson St., Painesville, Ohio. "In just exactly three weeks I've logged 288 stations. My best catches on this set are as follows: CMJK, YV1BC, 10-AT, 10-BP, CKWX, KOH, WRDO, KID and KBTM."

"I have 387 stations logged so far with 120 verified," reports \*W. H. Lewis, 1328 Delaware St., Leavenworth, Kans. "I have succeeded in logging and verifying 10-AB, 10-BQ and KFPM. So far I have not logged any European or Australian or Japanese stations on the b.c. band, but I have succeeded in logging HPB, Geneva, on the short waves."

"I have been Dxing since April, 1932," writes Mrs. Peter Fanelli, 36 So. High St., Passaic, N. J., "and have 310 stations verified, including Cubans, Mexicans, Canadians, one Porto Rican, and YV1BC, also 10-BQ

and 10-BP. I think it's not so bad for a beginner. I use a Radiola 66 superhet."

"I took a notion to try my hand at DXing again, after a long lay-off," remarks W. D. Crawford, 619 Victor St., Winnipeg, Man., "so I traded in my Radiola 33 and got a Northern Electric all-wave set. In two weeks' time I picked up 200 stations, including GSC, Daventry; FTM, Pontoise; VLK, Sydney, Australia; DOA, Doeberitz, Germany."

The Colorado altitudes must be favorable to distant reception from the report of Harold R. Jordan, 22 West Cheyenne Road, Colorado Springs. Among his distant stations are Porto Rico, Hawaii, Venezuela, New Zealand and Australia and 17 in Japan. He gets the larger JO's with volume control in lowest position.

Porto Rico, Dominican Republic, Venezuela, Colombia, France, New Zealand and eight from Australia are reported from Ann Arbor, Mich., by Richard M. Carter, 1315 Washtenaw Ave. Richard has now completed his full roster of the states and the provinces of Canada.

From Tampa, Florida, A. L. Beaty, 1207 33rd Ave., reports the reception of JOAK in Japan and 4RK, 4GQ, 2YA, 5CK and 2BL in the Antipodes, 10-BQ, 10-AB and VAS from the northern Dominions and KGU from Hawaii.

From away down in Key West, \*A. A. Wiggin, 1206 South Street, gets the following stations in the middle of the day on his Majestic: WWL, WFAA, WLW, WSM, WEAJ, WHAS, WBT.

"I now have an Ekko stamp from each of the 48 states," boasts R. L. Brown, 413 30th St., McKeesport, Pa. "I use a Majestic 7-tube screen grid set Model 132."

## The Short Waves

*(Continued from page 10)*

EAQ announces, "Ay ah koo, Radiodifusion Ibero-Americano, Madrid,

España."

PRADO calls, "Estacion El Prado, Riobamba, Ecuador."

HCJB announces, "La Voz de Los Andes."

The laugh of the Kookaburra, or Laughing Jackass, Australia's laughing bird, identifies VK2ME.

The Daventry station can be recognized by Big Ben striking the hours.

RV59 broadcasts chimes from the Kremlin at 4 p. m., E. S. T.

HJ1ABB announces "La Voz de Barranquilla."

HJ4ABE says, "Achay Hota quatro ah bay ay, Medellin, Colombia."

The German stations have both men and lady announcers, and as a rule the lady announcer gives the schedules in English.

Telephone stations may be identified by determining the frequency on which they are heard and the language used. In some cases the station with which they are working will serve as a clue, as, for instance, a station heard near 15,600 kcs., calling "Allo Saigon" would undoubtedly be FTK, Ste. Assise, France, or a station near 8,800 kcs., talking to WOO would be a ship in the 8,831 kcs. band. In this case it would be necessary to listen to WOO to learn to which ship he is talking.

It is hoped that these few pointers will be of some assistance to our readers. If it will serve in even a small way to help some one derive a little more pleasure from his receiver it will have served its purpose.

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## What to Do in Case—

*(Continued from page 24)*

ment, and these wires will not be found a part of the 5-wire cable from the set to the speaker, as mentioned by you.

**Value of Volume Control**

*I have a Baldwin receiver which has a bad volume control. Can you tell me the value of this device?*

You have not given the model of

this set. However, we are certain that the volume control resistance is 15,000 ohms. It also has an additional sensitivity adjustment of 1,000 ohms connected in series with the volume control; it is controlled by a screw in the rear of the chassis. An adjustment of this latter device may be of some help.

### B Battery Eliminator

*My Abox B battery eliminator has refused to work properly. What can be the trouble?*

The Abox eliminator is similar to the Balkite device and utilizes the same parts, so if you are unable to procure Abox repairs you may use the same Balkite parts. These devices consist of a 110-volt power transformer that steps the current up to B battery potentials, or down to A battery filament voltages. Then, in series with the secondary output of the transformer, are a number of small cells, made of two plates—one of lead and one of aluminum—in tiny jars containing a saturated solution of borax and distilled water or boric acid. A choke coil and by-pass condensers complete the circuit to smooth out the rectified current coming from the electrolytic cells. Trouble, then, may be located in these cells, the transformer, choke coil, condensers, or associated wiring.

The cells must have new acid placed in them at least once a year. Most radio supply houses can furnish you with this acid—one bottle making a complete refilling of an Abox or Balkite eliminator.

### Power for Converter

*How can I obtain power from my General Electric a.c. set to operate a one-tube short-wave converter that I contemplate building?*

Your converter, being a one-tube set, can take its filament and plate current from the General Electric radio set. If you will use a 57 tube in the contemplated circuit instead of the -24, you will lower the filament drain to a negligible amount. A wafer adapter, placed beneath one

of your intermediate-frequency tubes (if of a type that draws 2.5 volts), will provide filament current and plate voltage sufficient to operate your short-wave adapter.

### Tubes for Radiola III

*Is it possible to use new tubes in my Radiola III? If so, please indicate how to make the change in wiring, if such is necessary.*

The Radiola III is a battery type set using two -11 type tubes. These can be replaced to great advantage with -30s. But the sockets used for the -11s are the small types, and must be replaced with the medium 4-pin sockets, or adapters that were made to convert -11 sockets over to -12 type. As the filament voltage of the -11 is less than the 2 volts required for the -30s it will be necessary to insert a 5-ohm resistor in series with the two dry cells (connected in series for 3.0 volts) connected to the A terminals of the set and its volume control rheostat.

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## With the Editor

*(Continued from page 13)*

give us the names and addresses of some of the larger clubs in Canada and the United States?" If members of the various clubs will notify us at once, we will have a Club Directory in the June issue. Give us the date organized, number of members, initiation fee and yearly dues, names and addresses of officers to whom membership applications should be sent, and what service the members receive.

"How can I convert meters into kilocycles and kilocycles into meters?" is an inquiry we frequently receive. Radio waves travel at the rate of 299,820 meters per second. If we vibrate a radio signal at the rate of 1000 kilocycles per second, each resulting wave will be 299.82 meters in length. Therefore, if we divide the speed (299,820 meters) by the frequency in kilocycles we get the wave length. If we divide by the me-

ters we get the frequency in kilocycles.

A much simpler method is to refer to our index of Short Wave Stations of the World as published in the April issue as this gives both meters and kilocycles for hundreds of channels.

A Cuban friend sends us the following clipping from the newspaper "El Camagueyano," which some of our Spanish-speaking friends may like to translate.

### Can You Read It?

Así también nos complace mencionar el recibo de un ejemplar de la más interesante Revista dedicada a los Radioyentes en los Estados Unidos de América.

Nos referimos a "Radex" cuyo número de Enero tenemos a la vista, repleto de interesantísimo material sobre Radio y detalles técnicos de la Industria mencionada.

"Radex" se edita en la ciudad de Cleveland, Estado de Ohio en el número 5005 de la Avenida de Euclid, donde pueden ustedes dirigirse solicitando "The All-wave Radio Magazine" por excelencia.

"I have a rather unusual hookup," writes Victor Julian, 4953 Saratoga Ave., Ocean Beach, Calif. "A 4-tube S.W. made to order, using the power pack of my old Victor Combination Model 32. The tubes in the S.W. are two 57s, one 58 and one 56. The plant in the Victor is one 83 replacing the old 80 and two 47s on adapters. They work well."

"I followed the diagram in the February issue," reports William Merrick, 17 Roland Ave., Cranston, R. I., "and attached headphones to my new General Electric J-79 with a switch to cut off the speaker. Now I can sit up all night and pull them in and not disturb anyone in the house." William is delighted with his new receiver.

## With the Radexers

*(Continued from page 18)*

M. Royal, 9544 Sand Point Way, Seattle, Wash. "I know I had the

program down correctly, but a booklet is all they sent me. It is very interesting, but do you think it is a very good verification? I have not heard from JOLK yet. Several times lately I have heard the 9:30 P. M. news broadcast 'Japan time' and it has been in English. The Trans-Pacific reception this winter has been excellent. I had KGU, Honolulu, 13 evenings out of 15 last month. Also 2YA, New Zealand, nearly the same number of times."

"I had my first set in 1922, a one-tube regenerative," reminisces Frank E. Hostetler, RFD No. 2, Box 101, Dillonvale, Ohio. "A Lincoln all-wave d.c. SW-10 is my present receiver. My best DX verifications are 2LO, EAJ7, RUS, WKAQ, YV1BC, 2YA. Have written to 2BL for verification. Have twice heard OA1B at Negritos, Peru. The second reception was February 10th at 5:25 a. m. EST. Listened in from Saturday midnight to daylight. Heard 2BL, YV1BC, 2YA, and 10-AT at Trail, B. C., which was heard for over an hour. CMJK, 790 keys., is on every Saturday night until about daylight."

"I have a Victor R-40, with a Stewart-Warner converter 301-A, and have quite a number of stations," writes D. W. Webster, 453 No. Vickers St., Fort William, Ont. "I have logged 180 b.c. stations and 16 s.w. stations. Last July I heard Schenectady broadcast a Rotary program around the world to Eindhoven, then Bandoeng, Java, and Australia and return. A shot was fired from Schenectady and it sounded as plain as if it were in the room where I was sitting. Since last March I have had VK2ME, Sydney, Australia, every Sunday at 7:30 p. m. EST, and I have this verified."

"Tell the boys who are having interference on the 770 kc. band," suggests H. E. Elsen, 1801 Rose St., Berkeley, Calif., "that without doubt the interference is coming from JOHK, Sendai, Japan. They don't give me much to work on, in the line of a logged program, but there isn't a night that I don't play JOHK for

a few minutes. When they are on and WBBM is also on, I'd never know WBBM was on except when JOHK fades. On two or three occasions they have nearly drowned out KTM, which is only 500 miles from here and ten kilocycles higher frequency. I don't say that they are always that strong, but it is the rule rather than the exception."

"I have had a 16-tube Midwest all-wave set for about three months and have already logged about 600 stations with it," remarks Arthur F. Pierce, Jr., 332 Bay St., Springfield, Mass. "I have heard at least one station on each of the regular broadcasting channels and covered all but six states in the Union. Although I have nothing but an inside aerial my log includes Canadian, Cuban, Porto Rican, and Mexican stations on the regular broadcast band. I get the most enjoyment from the short waves because it is my first experience with them. In addition to about 200 amateurs, 62 aviation calls, 46 police stations, and 3 television stations in the United States and Canada, I have had fine reception of short-wave broadcast and phone stations in the United States, Canada, Mexico, Bermuda, Venezuela, Colombia, England, France, Spain, Germany, Italy and Argentina."

"Was playing the b.c. band about 4:00 a. m. today," postcards R. N. Putnam, 920-12th Ave., N., Fargo, N. D., "and had HJN, Bogota, Colombia, on 685 kcys. coming in great. Also had several Aussies and Zedders again. Funny part of it is that early in the evening I could hardly get any U. S. stations as static was bad and reception poor. I have just obtained a Stewart-Warner s. w. converter to go with my Philco 90. So far I'm not doing so well with the foreign, but am living in hopes. By the way, do you know of any way to fix the above named converter to get below the 20-meter band? Say to about 13 or 15 meters."

"I am writing to give you a tip on NAA," suggests Benjamin Genung,

340 Arch St., Spring City, Pa. "Their schedule is 11:56 a. m. to 12 noon, time signals, and 9:55 p. m. to 10:00 time signals, and 10:00 p. m. weather reports. They come in on 690 kcys. I use a 6-tube Atwater Kent radio. After WPTF signs off I can hear CMAF clearly. I have listened on 920 kcys. for hours and an announcer talks in Spanish but I have never heard him announce the call letters."

"I mailed a report of a fifteen-minute frequency test to WCAX December 16th," complains Chas. L. Morgan, 800 East 179th Street, New York City. "I gave them a full report from 2:15 to 2:30 a. m. when they signed off. I have written to both the engineer and the manager but they will not answer. That is the only station in Vermont I have not logged and I do not log a station until I have the verification. I wish I could get WCAX to verify as we cannot get him on regular programs on account of interference."

"I have a Stewart-Warner Model 102-B long and short-wave set," writes Ed Clayards, 2518 Bowker Ave., Victoria, B. C. "My aerial is 150 feet long and 60 feet high. I get all the eastern and Alaskan stations and Japs on six tubes long wave. The short wave works very good, getting all 'hams,' police cars, coast guard, and several stations in Europe. Those amateurs certainly did work hard the night of the California earthquake. They deserve a lot of praise, relaying messages and calls."

"My most interesting catch," says B. S. Hastings, 4333 Carlbrook Ave., Montreal, "was the reception of KFOX, Long Beach, describing earthquake scenes. This was received at 5:50 a. m. in broad daylight but with excellent strength. After about ten minutes it began to fade and then passed out. A few minutes later I received WGCM, Gulfport, Miss., with good volume—not bad for a 100-watter in daylight."

"I am using a Pfanstheil converter with my Silver-Marshall 724 a.c., with



great results," comments Wm. E. Stillwell, 2940 S. Logan St., Denver, Colo. "Have picked up EAQ, HKA, HKD, and YV11BMO which came in like a local station on two occasions, both being on Monday. Picked it up at 4:00 p. m. MST and kept it until it signed off at 8:00 p. m. MST. They announced in English."

Thomas Anderson, 449 McIntyre Street, Regina, Sask., submits the verification he received for daylight reception of Dublin, Texas, when it was using only fifteen watts. This gives him a mileage quotient of 86. This was with a 6-tube Marconi using eliminators. Now he has a 13-tube all-wave Marconi and says he can get Europe almost any day on the short waves.

"A few days ago," postcards J. A. Shanks, Russellville, Tenn., "I picked up two stations in Montana, KGHL and KGIR, both the same morning. Last Friday morning I brought in two new 100-watt stations in Arizona KPJM and KGAR, both within about five minutes of each other. February 26th I had HJN, Bogota, from 2:39 to 4:02 a. m. They came in like a local without fading."

"I certainly enjoy radioing around," writes Mrs. R. Furley, RFD No. 6, Mt. Vernon, Ohio. "I am not going to be satisfied until I hear from every state in the Union." Mrs. Furley has had a new Kolster International for only a week and already has 20 states on her roster.

"I have just received a verification of the reception of a radio program I heard at 5:00 a. m. EST Christmas morning, all other stations on 900 kcys. being silent at that time," reports W. G. Kohler, 333 Tioga St., Johnstown, Pa. "It was station KGBU, Ketchikan, Alaska." "Saturday at 9:15 p. m., after WPTF signed off," says Joe Tamele, 13201 Coath Ave., Cleveland, Ohio, "I picked up CMAF without touching the set. I sent for a verification. I am sure they are on 680, but for a 500-watter they sure come in. I've picked them up before

on the same dial setting."

"Try for 2YA on 720 about 2:00 a. m. PST," urges H. E. Elsen, 1801 Rose St., Berkeley, Calif. "I get them every night at this time, but can't get them before 1:55 a. m. or after 2:30 a. m. good enough to log their program."

"KGEK is on from 11:30 p. m. to 1:30 a. m. MST each Friday; KID is on daily from 8:00 p. m. to 12:01 a. m. MST every day; KFWI is on daily until 1:00 a. m. PST," contributes Roger D. Cause, P. O. Box 6688, Lester, Penn., who wants to know if anyone has yet received XENT.

Radio station WJAG has accepted the invitation of the New Zealand DX Club to broadcast a special program for New Zealand listeners from 12:01 to 2:00 a. m. CST on Sunday, April 30, 1933. It will be 5:30 to 7:30 p. m. standard time, or 6:00 to 8:00 p. m. summer time in New Zealand. Since New Zealand climate is the opposite of Norfolk, Nebr., the length of day there will be similar to that of Norfolk on October 30th.

The station will conduct the program as a "Salute to New Zealand." The station has asked the Premier of New Zealand to cable a special message to be read on the program.

Two of the best known DXers in the country submit opposite views on the subject of DX logs. Neither desires his name used. Writes Mr. A.: "No one cares if I've logged 1400 or 1500 stations in the ten years I have been DXing. It's what is being heard at present that counts. All-time records are not fair to those who have taken up DXing in the last two or three years. They discourage the newcomer and hurt DX." Says Mr. B.: "It is the old-timer who really started DXing and who forms its backbone today and I believe they should be duly credited for their persistence in continuing in the the face of constantly rising odds against their chance of catching a new one. After 700 are logged then comes the time for the most careful and systematic tuning. In other lines of endeavor, a

person is given credit for past performance and such credit grows as time goes on. If a station is deleted does its deletion change the fact that it was heard?"

## Mutual Aid

(Continued from page 26)

would be church time in England, Bill is naturally curious to know whether he could have had London on 843 keys.

"On January 23rd at 6:00 p. m., AST., I heard a clock striking the hour of ten, on 825 keys," writes Robert Osborne, Stellarton, N. S. "Couldn't catch the announcements owing to interference from WHDH and WHAS. It sounded like French."

"Does anyone know where I2TAL is located?" asks Robert R. Rawstron, Claremont, N. H. "He was heard January 21st on 800 keys., with Marimba concert, and requested letters often and gave his call frequently, but no location. English was spoken."

## In High Frequencies

(Continued from page 30)

John C. Fulton, 70 Peace St., Providence, R. I., would like to hear from other short wave fans.

Good reports have been received from W. H. Davis, Jr., 2108 H Street, N. W., Washington, D. C. (26 stations); Herman Hurley, 1559 7th St., Louisville, Ky. (14 stations); and D. B. Lumsden, 514 W. Morgan St., Raleigh, N. C. (8 stations). Among the best stations mentioned by Mr. Davis are HKD, YV1BC, HVJ, EAQ, EAN, HKA, VK2ME, RV15, and DJD. Mr. Hurley says his prize catches are DJA and HBL, which he says, "were both heard while W1XAZ was bearing down, without any interference." Mr. Lumsden reports VK2ME, DJB and YVQ as his best stations.

## Canadian Police Broadcasters

Police stations in the Dominion use the following seven frequencies:

- a 17.330 meg. 17.3 meters.
- b 7.456 meg. 40.21 meters.
- c 6.420 meg. 46.7 meters.
- d 4.772 meg. 62.82 meters.
- e 3.458 meg. 86.7 meters.
- f 2.414 meg. 124.17 meters.
- g 1.710 meg. 175.3 meters.

Calgary, Alta.	CGS	acdef
Cranbrook, B. C.	UZN	bedefg
Edmonton, Alta.	CGJ	cdefg
Grande Prairie, Alta.	CFN	cdefg
Kamloops, B. C.	UZH	bedefg
Lethbridge, Alta.	CFO	cdefg
Montreal, Que.	UYR	g
Nelson, B. C.	UZI	bedefg
Pence River, Alta.	CFI	cdefg
Penticton, B. C.	CKT	bedefg
Prince George, B. C.	UJM	bedefg
Prince Rupert, B. C.	UZG	bedefg
Saint John, N. B.	CJW	f
Vancouver, B. C.	UZF	bedefg
Victoria, B. C.	UZE	bedefg
Winnipeg, Man.	UYW	f

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## Issues Available

RADEX is now out of print for the years up to and including 1928. For the year 1929 a very few copies of Nos. 27, 28, 29, 33 and 34 remain on hand. For 1930 we have a limited supply of Nos. 37, 38, 41, 42, 43, 44 and 45. We can supply complete files from Nos. 41 to 69 inclusive.

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world.

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ing to figure which is yesterday, to-  
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all.

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tails for using phones with adapters.

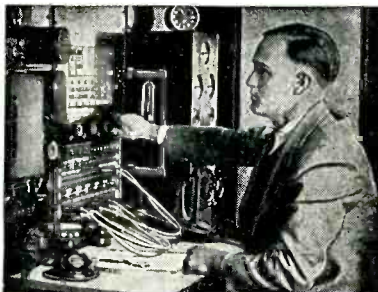
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